



39TH CONGRESS, }
1st Session. }

HOUSE OF REPRESENTATIVES.

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No. 52.

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ANNUAL REPORT

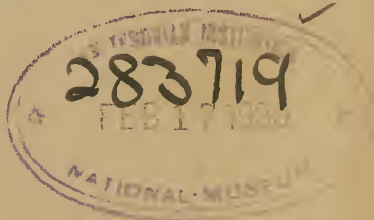
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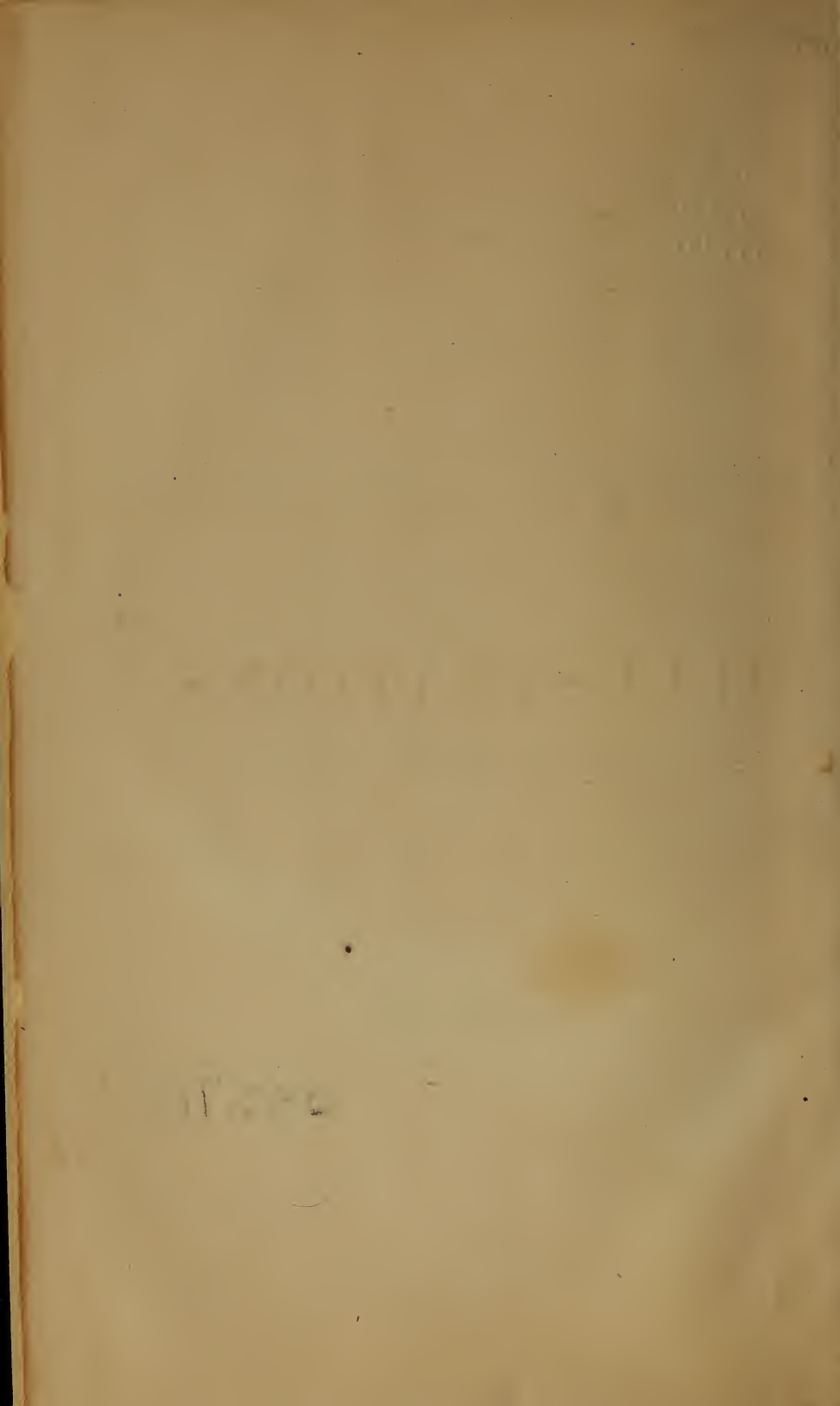
FOR

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VOLUME III.

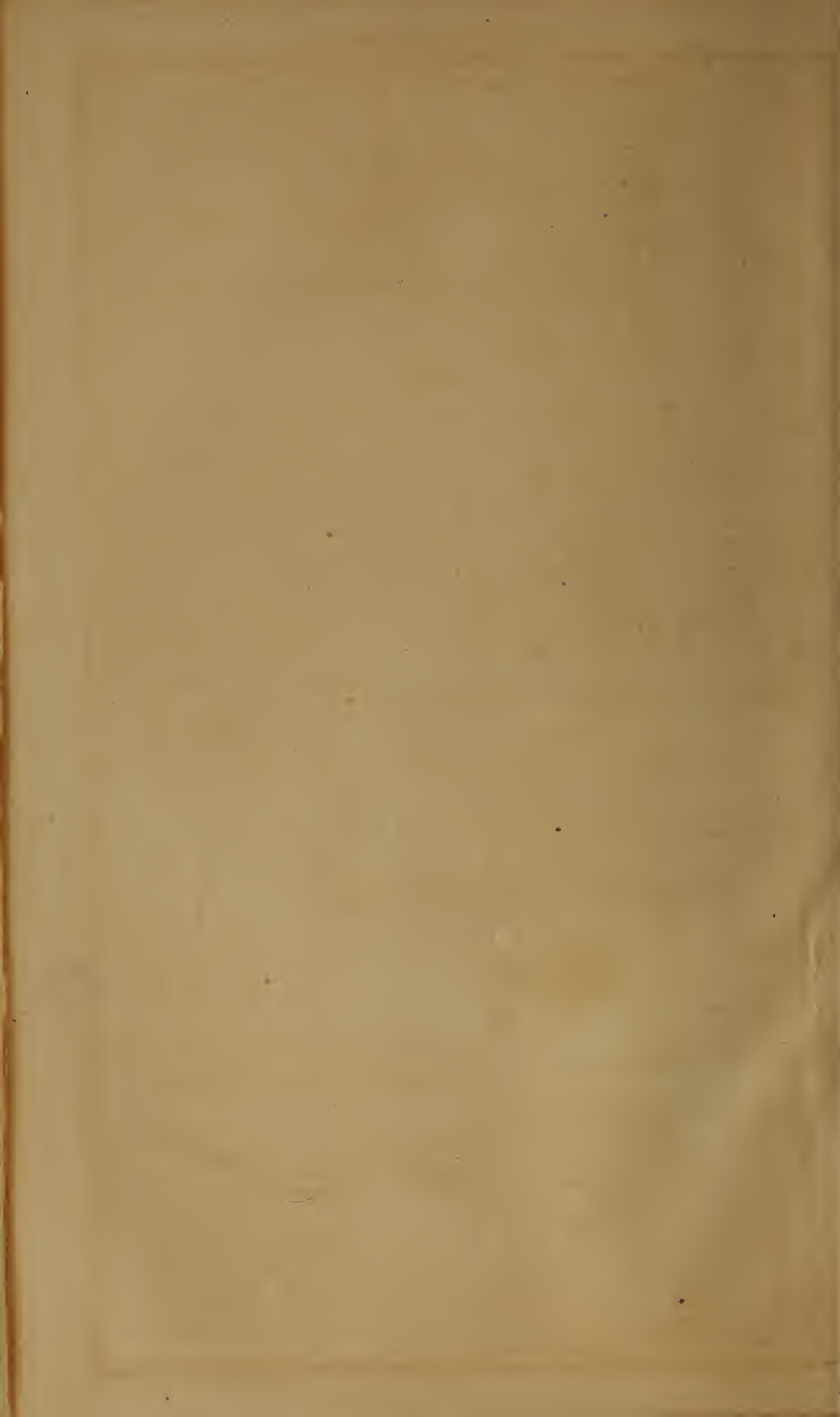


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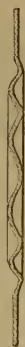


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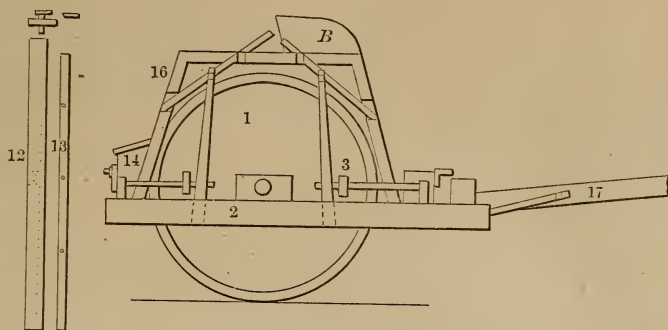
ILLUSTRATIONS.



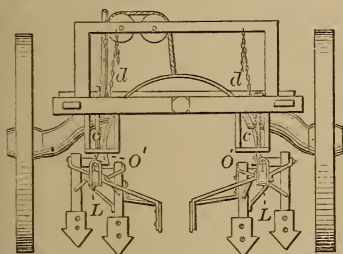
45685—E. H. Ashcroft—Steam Gauge.



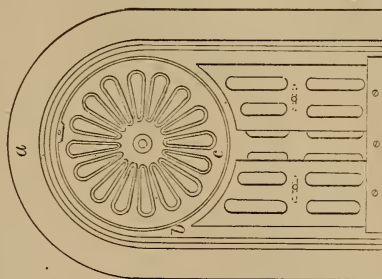
45686—Babcock & Jenks—Plaster and Seed Sower and Roller.



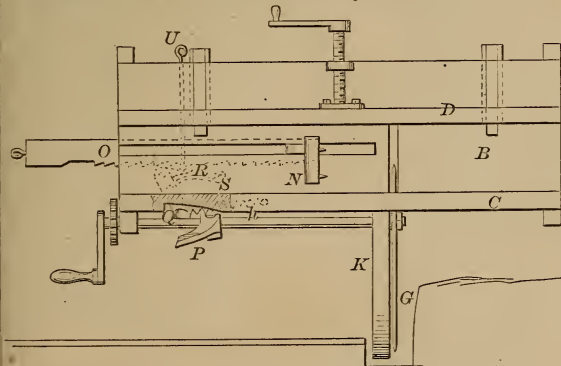
45687—I. Barber Jr.—Cultivator.



45688—S. S. Bent,
Register and Summer Piece.



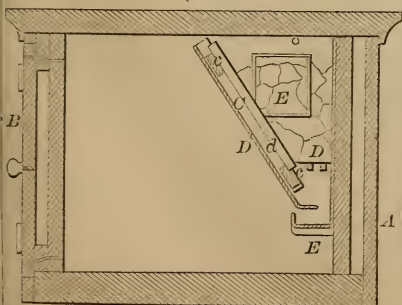
45689—S. E. Blake—Bread and Vegetable Slicer.



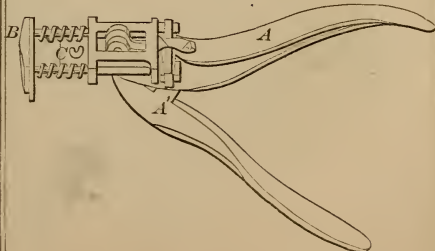
45691—C. F. Blakelee—Arm for Doll's.



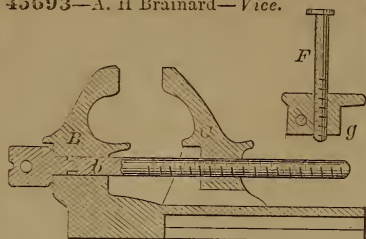
45690—Blake & Mosher—Refrigerator.



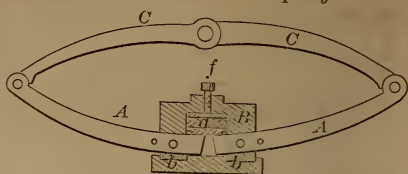
* 45692—H. F. Bond—Lamp Trimmer.



45693—A. H. Brainard—Vice.



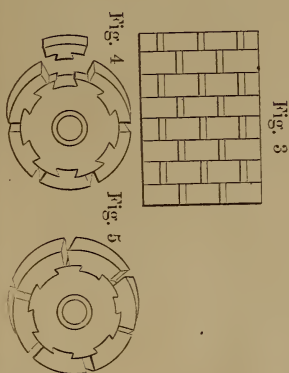
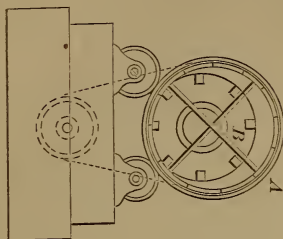
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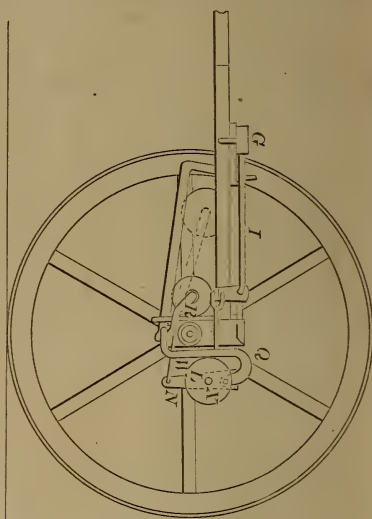
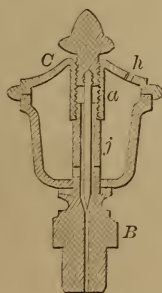
45695—I. F. Brown—Roller for Cotton Gin



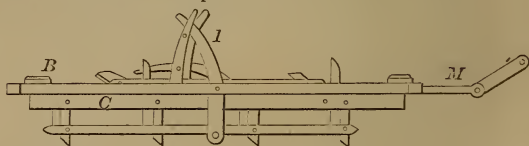
45698—H. Camp—Quartz Crusher.



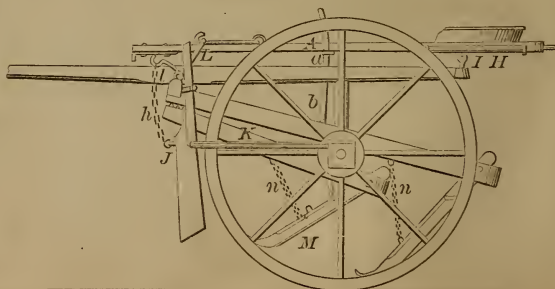
45699—L. R. Carpenter—Carriage Brake.

45691—J. Broughton,
Lubricator.

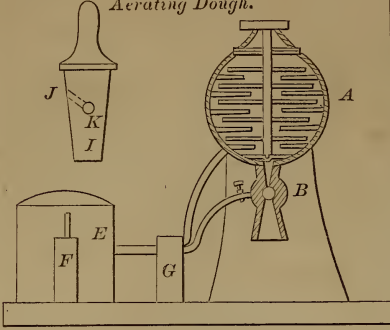
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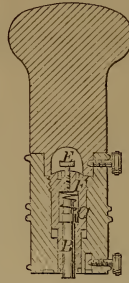
45700—A. B. Cass—Cultivator.



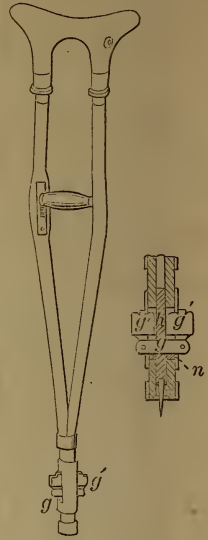
45706—E. Fitzgerald—Apparatus for Aerating Dough.



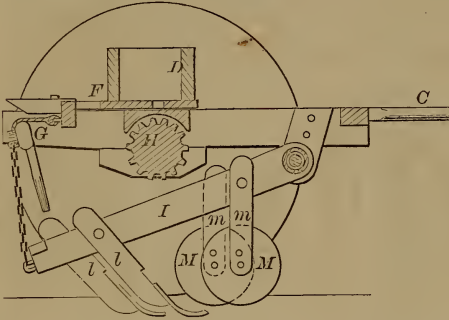
45708—J. W. Foster, Cancellous Stamp.



45709—T. E. Gordon, Crutch.

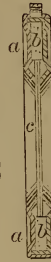


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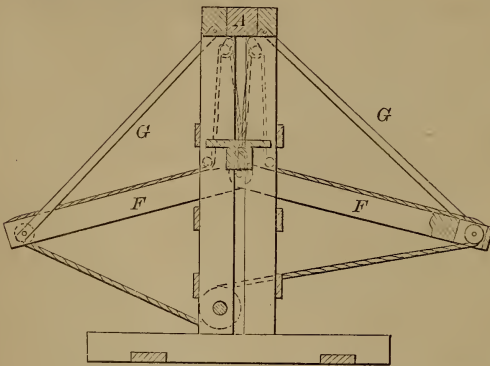


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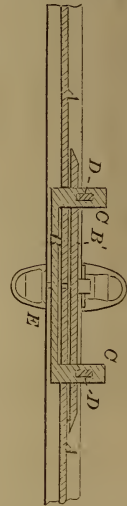
H. C. Griggs—Picture Medals &c.



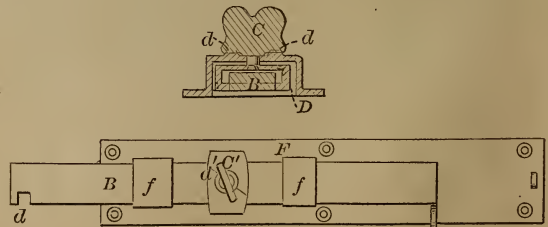
45711—G. E. Harding—Press.



45713—D. H. Hise—Railway Coupling.



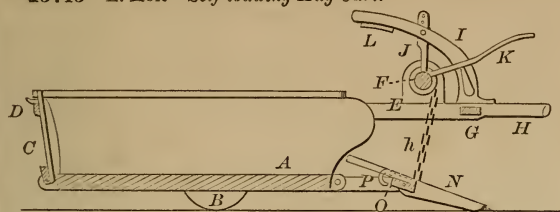
45712—D. C. Heller—Shutter Bolt.



45714—H. Hise—Snag Hook.



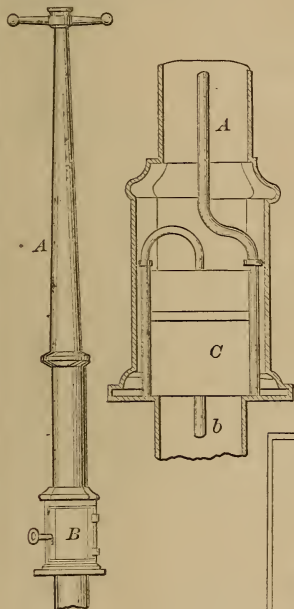
45715—E. Holt—Self-loading Hay Cart.



45716—M. R. Howell—Moulder's Sprue



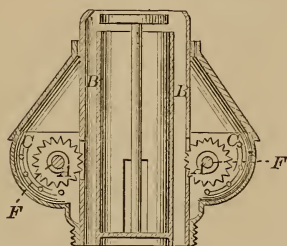
45717—J. T. P. Hunt,
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E. D. Hurst—Thread Guide for
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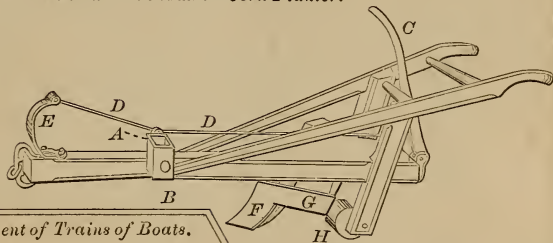
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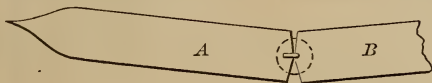
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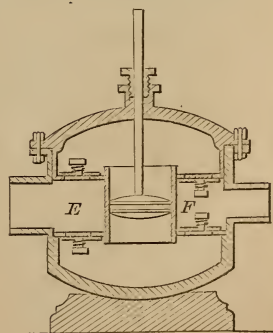
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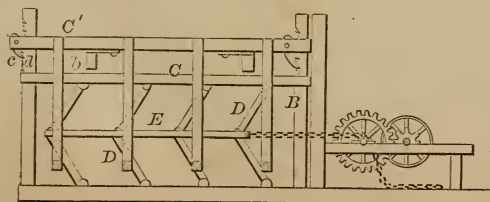
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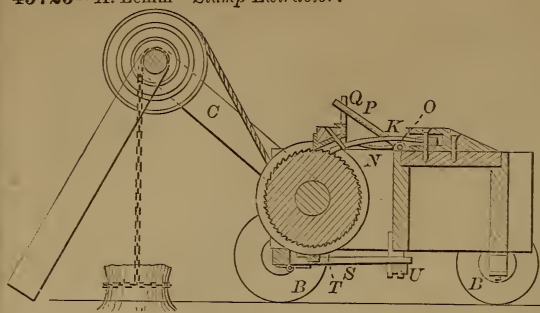
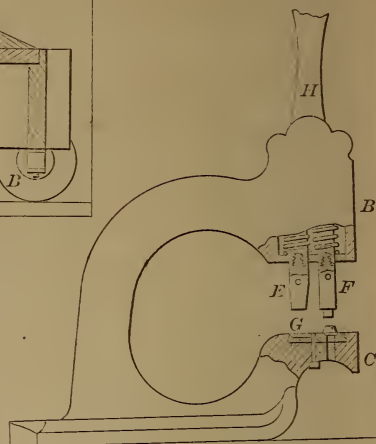


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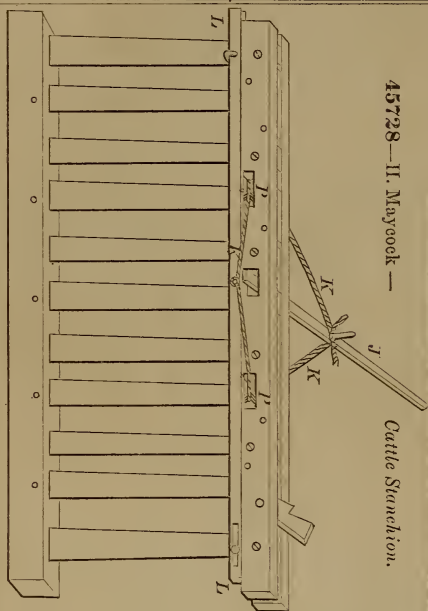
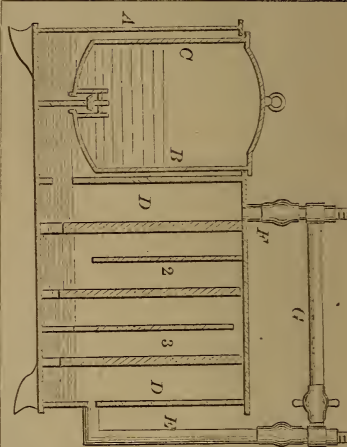
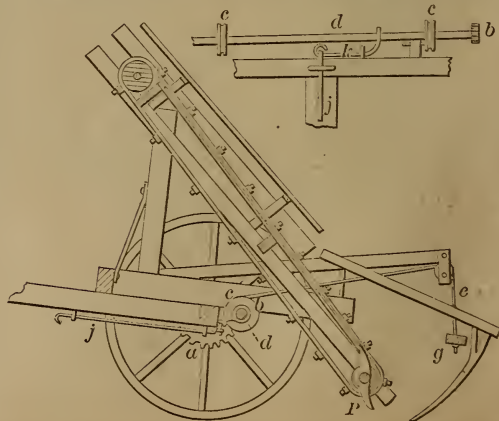


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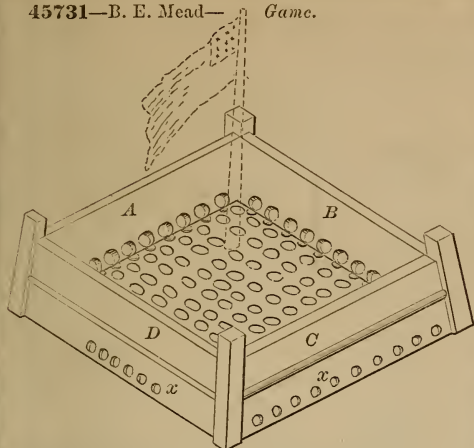


45725—H. Lemm—*Stump Extractor.*45727—H. L. Lipman,
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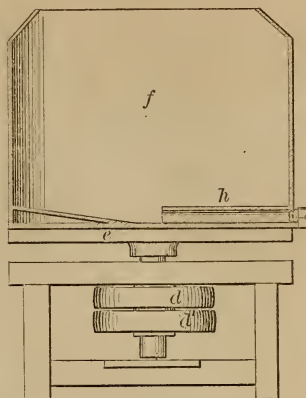
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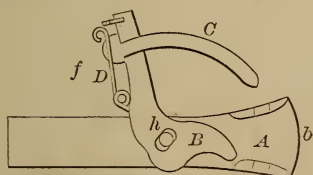
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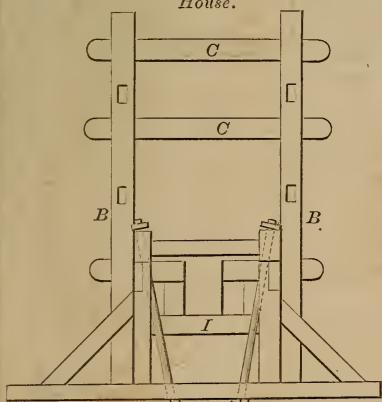
45736—J. Muir—*Machine for Condensing Potter's Clay.*



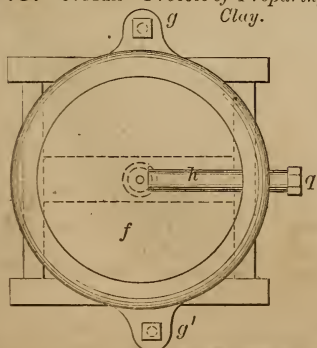
45733—L. Moody—*Car Coupling.*



45734—J. Morgan—*Frame for Portable House.*

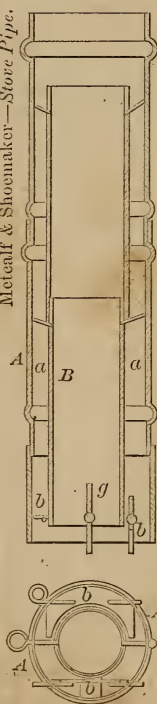


45737—J. Muir—*Process of Preparing Clay.*

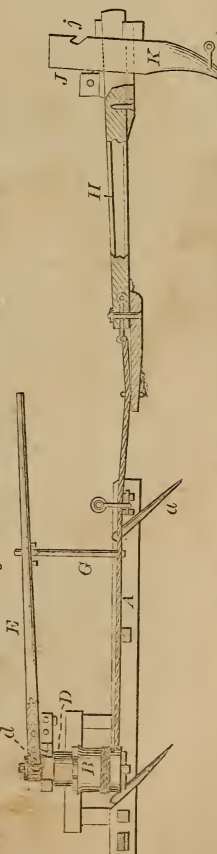


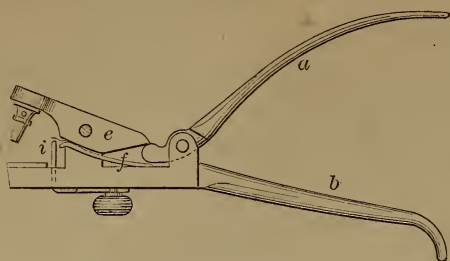
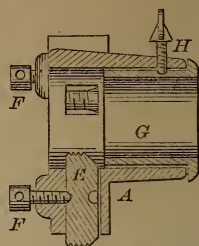
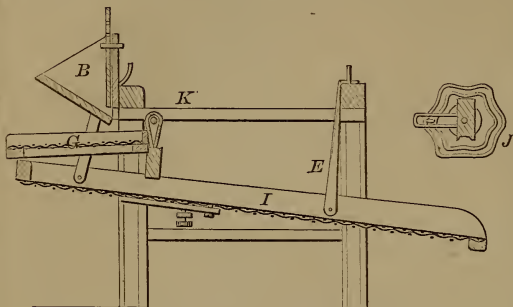
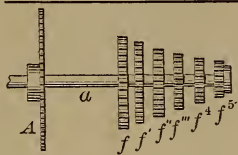
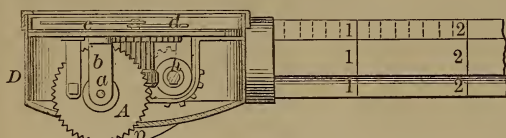
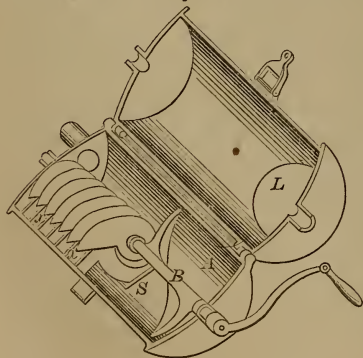
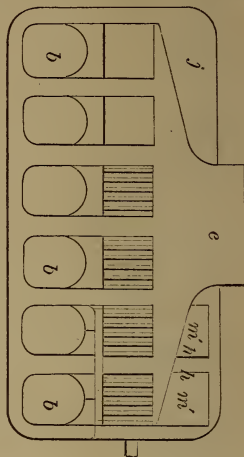
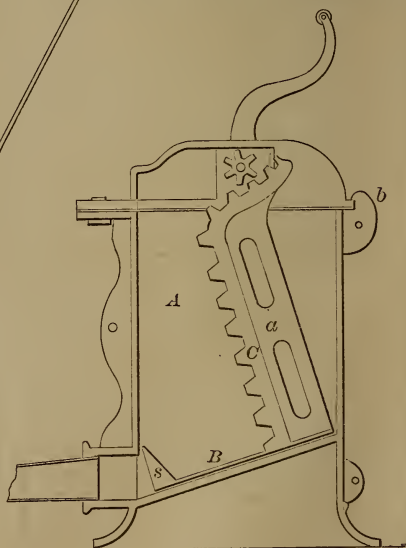
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Metal & Shoemaker—Store Pipe.

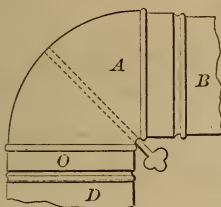


45735—E. H. Morton—*Ditching and Mole Plow.*

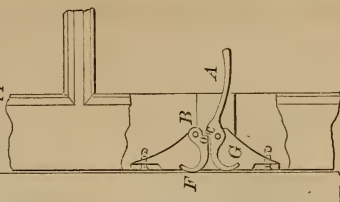


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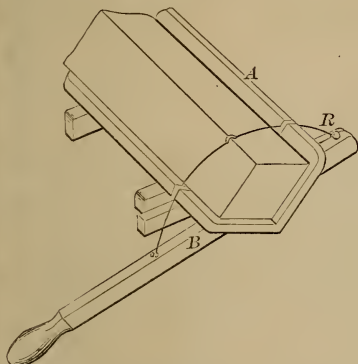
45745—J. G. Perry—*Stove Pipe Elbow.*



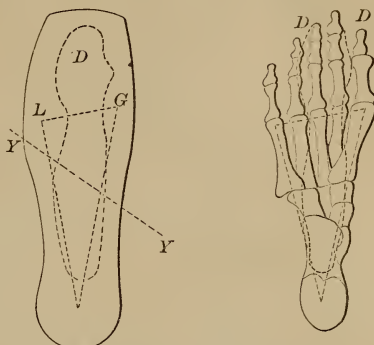
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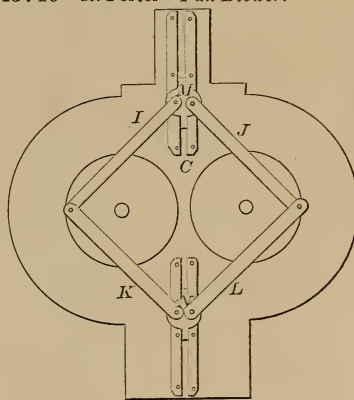
45746—J. G. Perry—*Machine for Cutting Soap.*



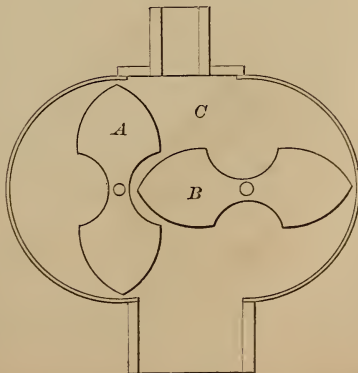
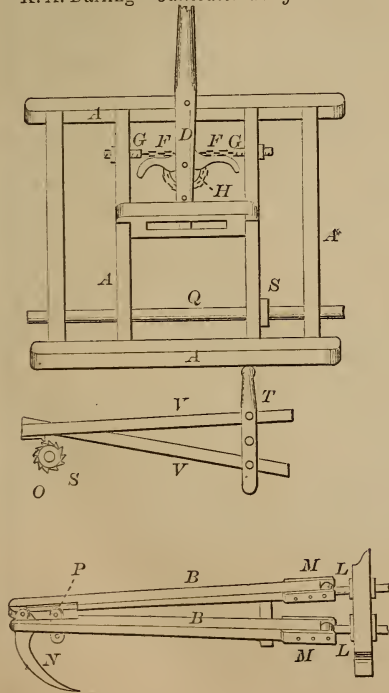
45748—J. C. Plumer—*Last.*



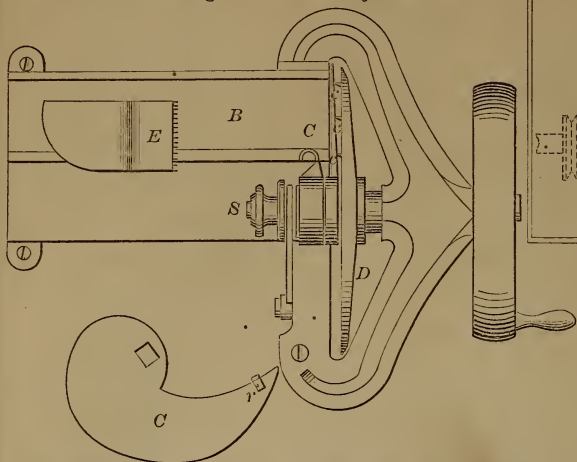
45749—R. Porter—*Fan Blower.*



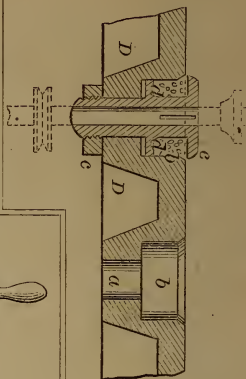
45750—T. T. Prosser and C. Darling and
K. A. Darling—*Cultivator Gang Plow.*



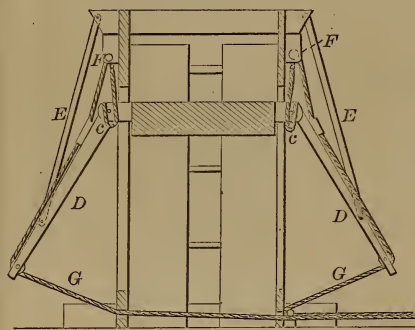
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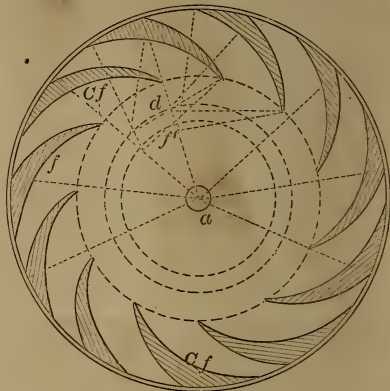
45752—Rippon & Robinson—Spindle Bolster for Spinning Frames.



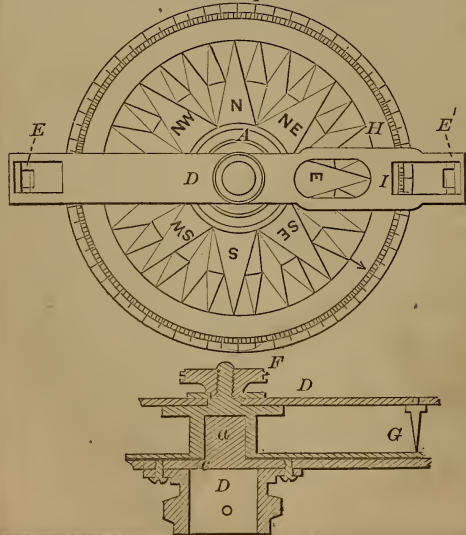
45754—C. H. Robinson—Press.



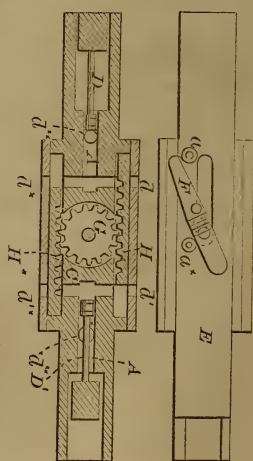
45755—J. Sandford—Water Wheel.



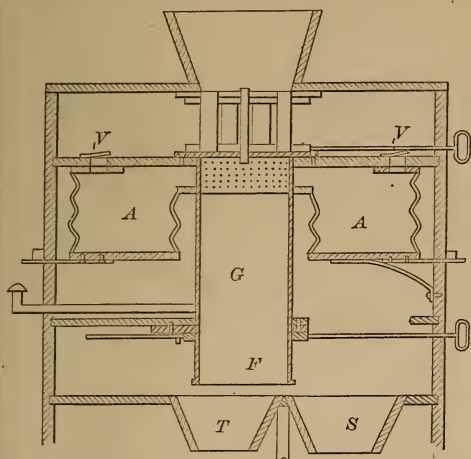
45753—E. S. Ritchie—Compass Variation Detector.



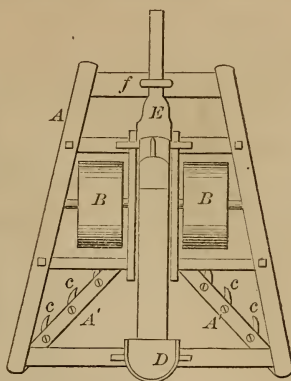
45756—D. Sexton—Steam Engine.



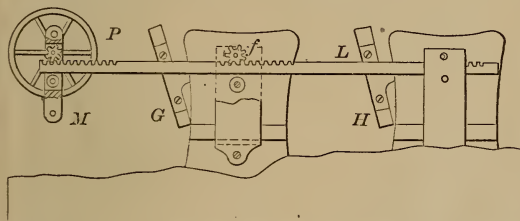
45757—E. L. Seymour—*Ore Separator.*



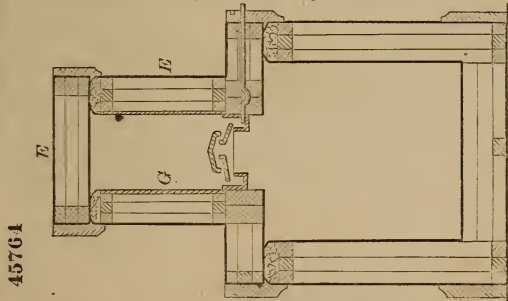
45758—L. Sherwood—*Cultivator.*



45759—E. F. Shoenberger—*Railway Car Seat.*

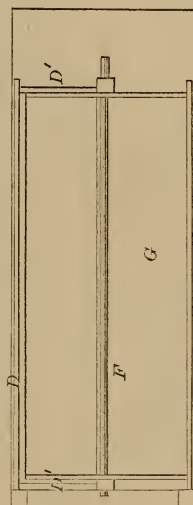


J. G. Staunton—*Case for Preserving Substances in Transit.*

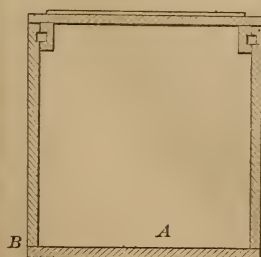


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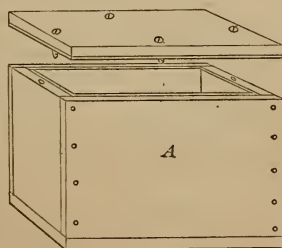
45761—R. A. Smith—*Ash Cart.*



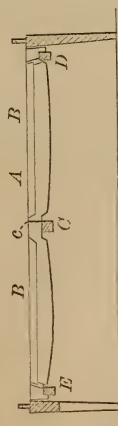
45766—J. G. Staunton,
Air Tight Box.



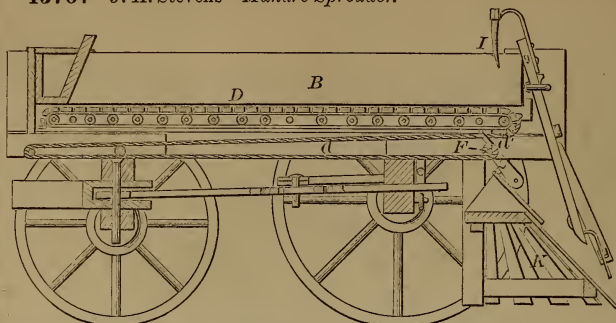
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Air Tight Box.



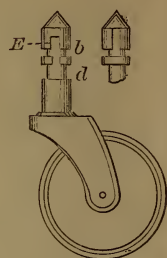
45760—W. H. Short—*Furnace Grate.*



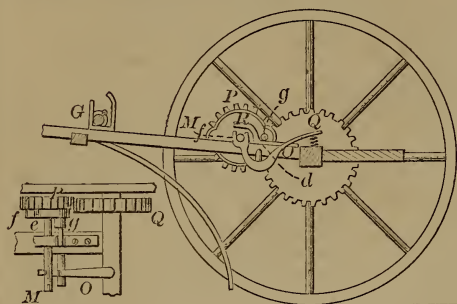
45767—J. H. Stevens—Manure Spreader.



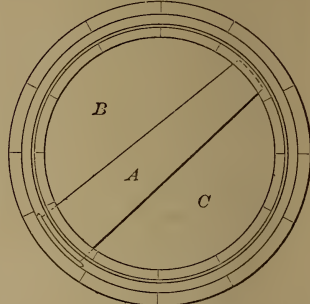
45773—A. Walker, Furniture Caster.



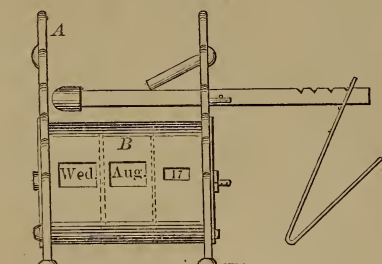
45769—J. C. Stoddard—Horse Rake.



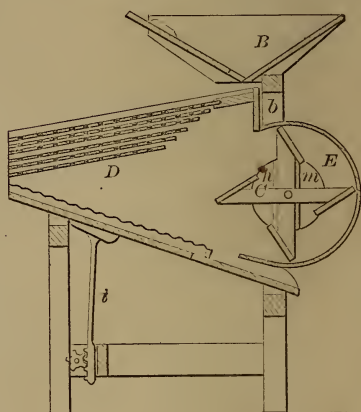
45771—J. T. Tomkins—Securing Barrel Heads.



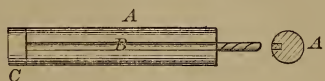
45770—H. N. Taft—Pen Rack, Calendar, and Letter Balance.



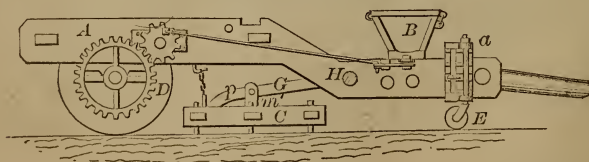
45772—B. T. Trimmer—Grain Separator.



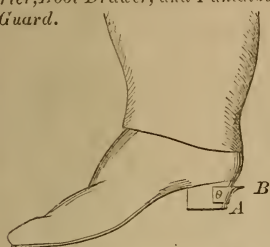
45774—T. H. Walton—Blasting Fuse.



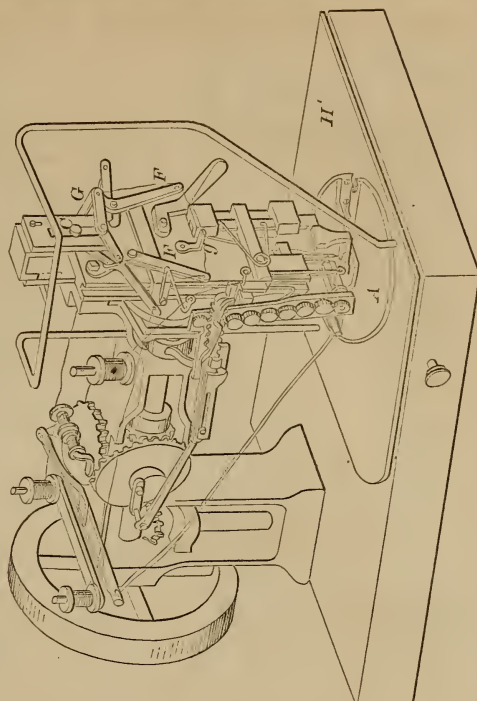
45775—G. W. Warren—Broadcast Seeding Machine.



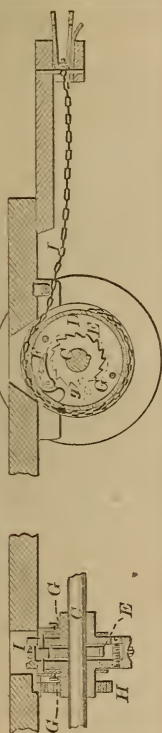
45776—E. P. Watson—*Spar Carrier, Boot Drawer, and Pantaloen Guard.*



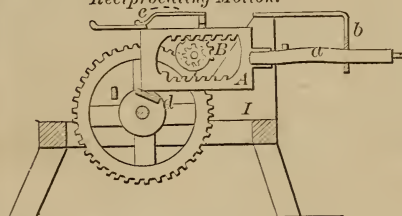
45777—W. Weitting—*Sewing Machine.*



45778—R. T. M. Wells—*Railroad Car.*



45779—P. Werni—*Converting Rotary into Reciprocating Motion.*

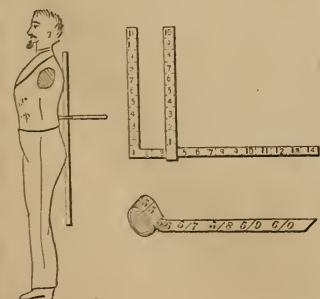


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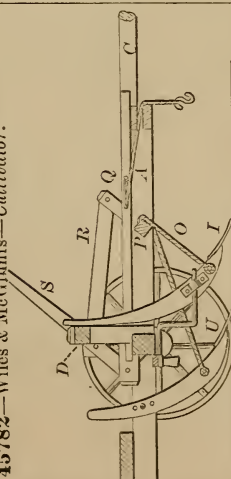
E. S. Wheeler,
Button.



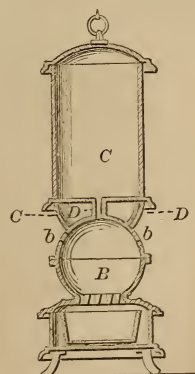
45780—J. B. West—*Tailor's Measure*



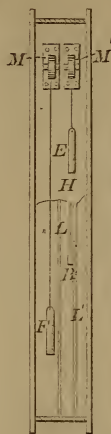
45782—Wiles & McGinnis—*Cultivator.*



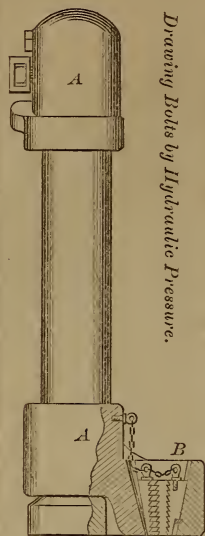
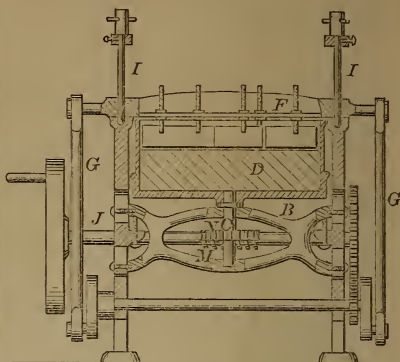
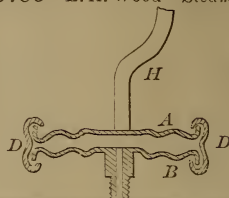
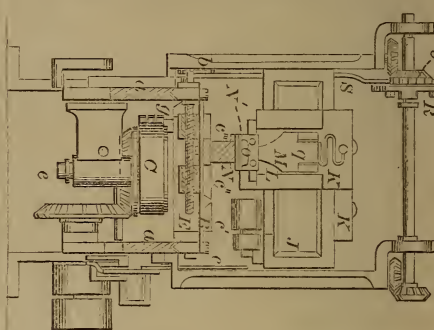
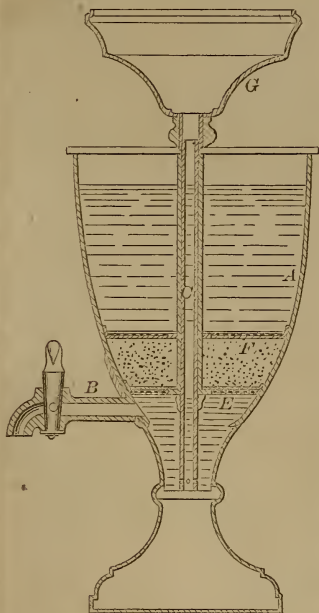
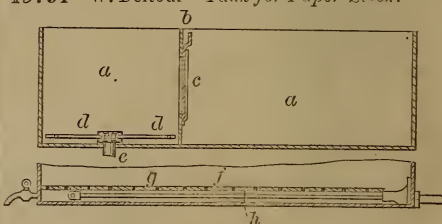
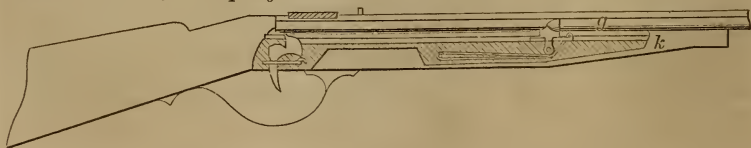
45783—W. Wheeler,
Stove.



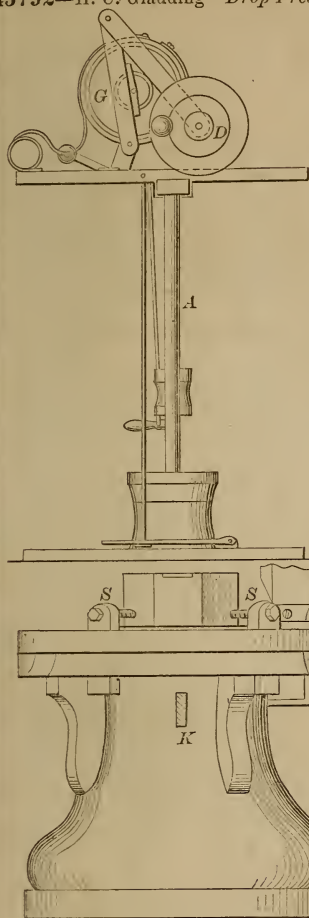
45784

J. H. Williams,
Sash Suspender.

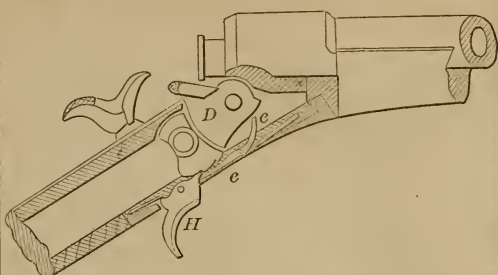
45785—S. Wilmarth.

Drawing Bolts by Hydraulic Pressure.45788—W. G. Bell—*Meat Cutter.*45786—E. A. Wood—*Steam Gauge.*45787—H. Young—*Coffee Pot.*45790—E. N. Dawey—*Chair Spline Cutter.*45791—W. Deltour—*Tank for Paper Stock.*45789—J. E. Blythe—*Spring Gun.*

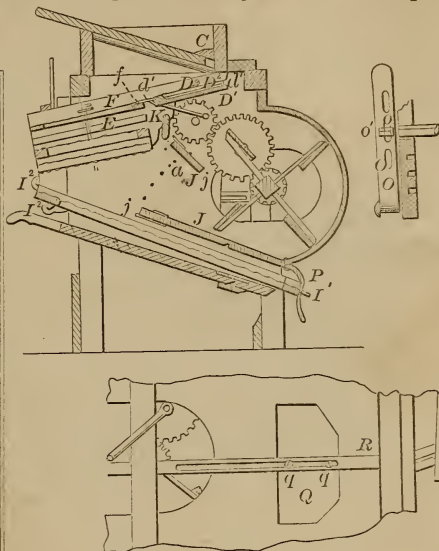
45792—H. C. Gladding—*Drop Press.*



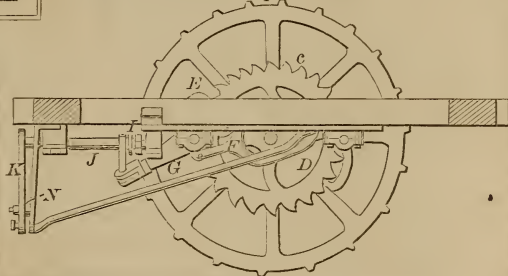
45797—J. Rider—*Breech Loading Fire Arm.*



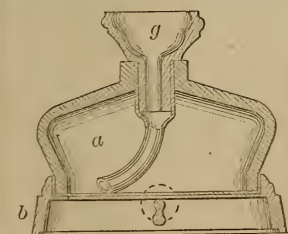
45796—H. Ogborn—*Fanning Mill and Grain Seperator.*



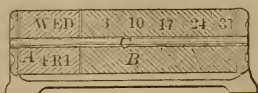
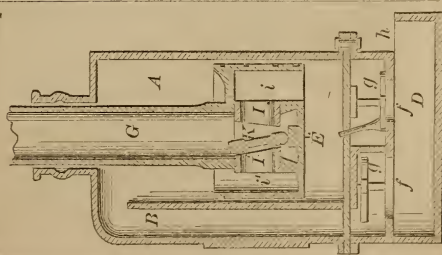
45798—T. Swan—*Reaper and Mower.*

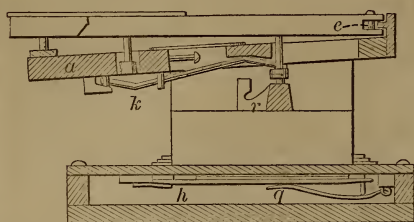
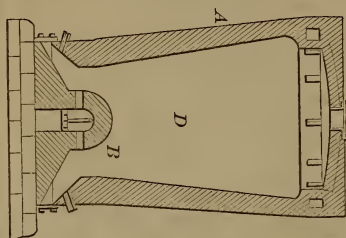
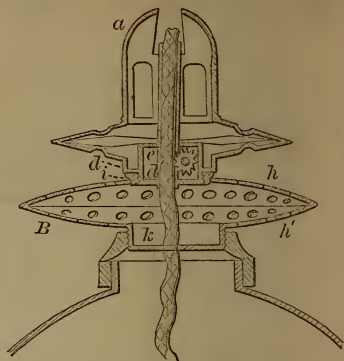
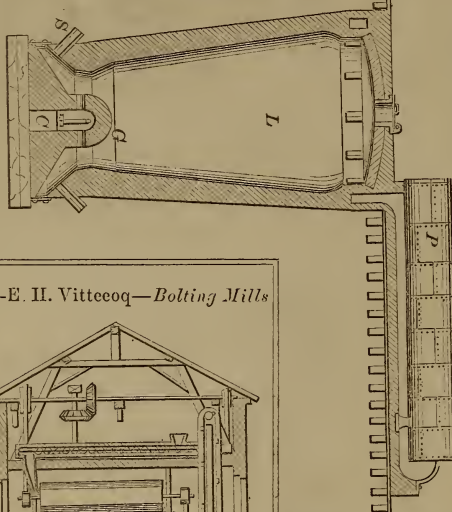
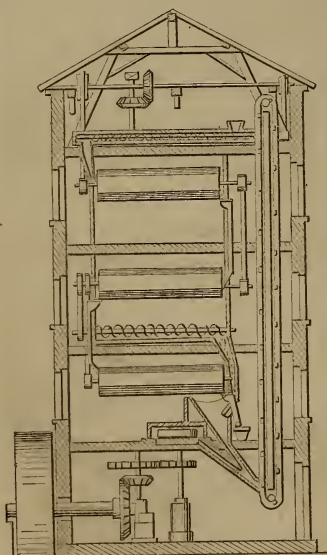
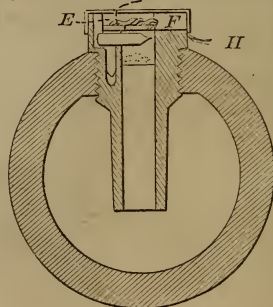


45794—F. L. Hicks—*Inkstand.*

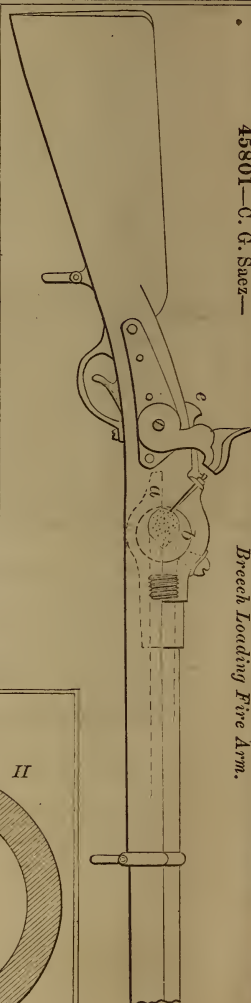


45795—H. W. Holly—*Perpetual Calendar.*

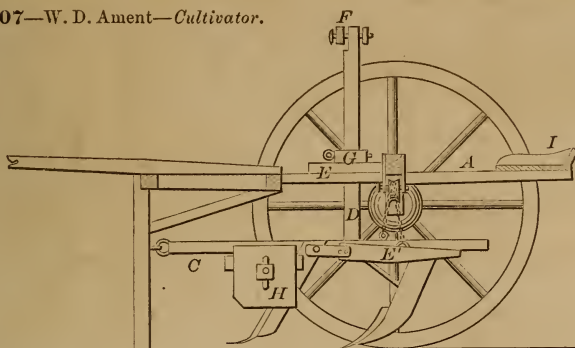
15799—M. P. Walters—*Pump*

45800—G. Woods—*Musical Instrument.*45805—J. Adair—*Lamp.*45803—M. B. Mason,
Treatment of Metallic Ores.45804—M. B. Mason—*Furnace for Ores.*45802—E. H. Vittecoq—*Bolting Mills*45806—J. S. Adams,
Hand Grenade.—D

45801—C. G. Saez—

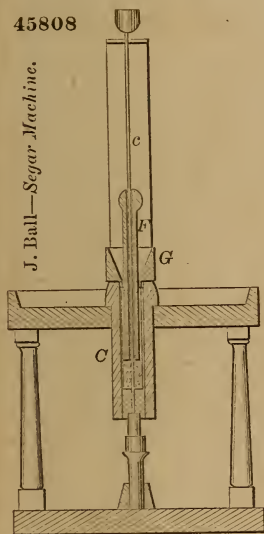
*Breech Loading Fire Arm.*

45807—W. D. Ament—*Cultivator.*

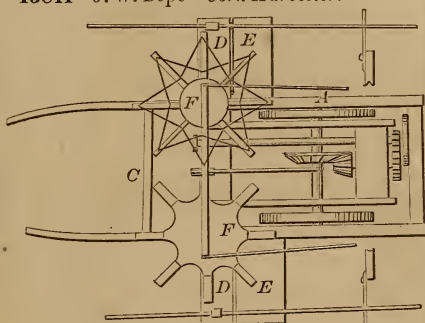


45808

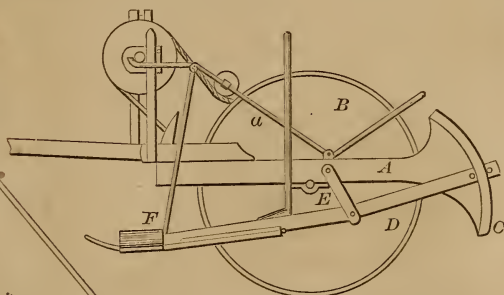
J. Ball—*Segar Machine.*



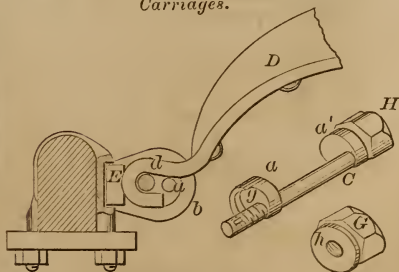
45811—J. W. Bope—*Corn Harvester.*



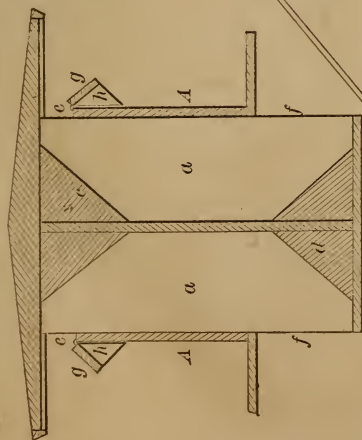
45810—J. W. Bope—*Harvester.*



45812—D. C. Breed—*Coupling Thills to Carriages.*

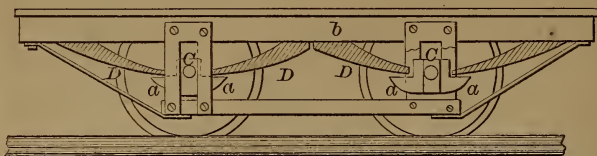
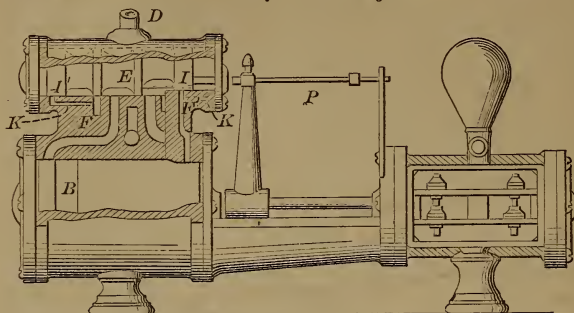
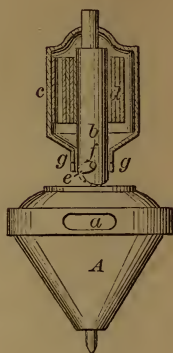
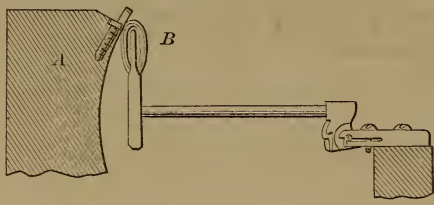
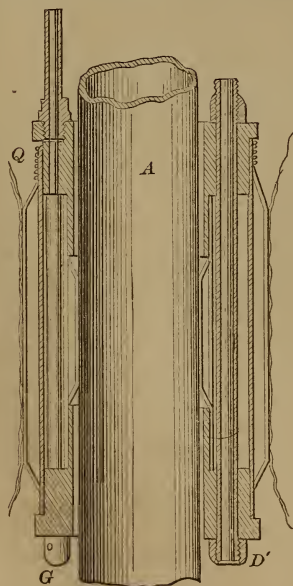


45814—B. J. Burnett—*Ventilator.*

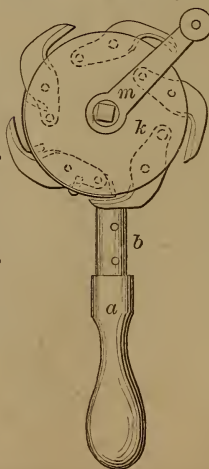
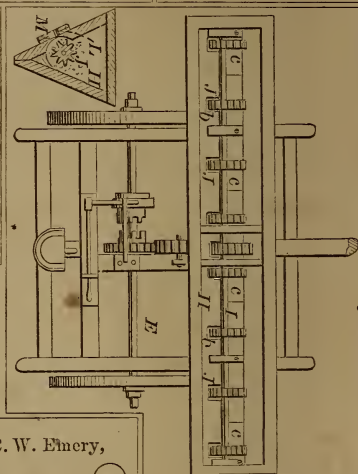
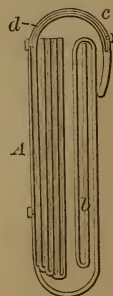


45813—W. Burnet—*Paper File.*



45815—W. Cox—*Car Spring.*45820—O. T. Earle—*Valve for Steam Engines.*45816—L. Cramer,
Spinning Top.45818—D. Decker—*Piano Forte.*45822—S. L. Fox—*Tube Packing*

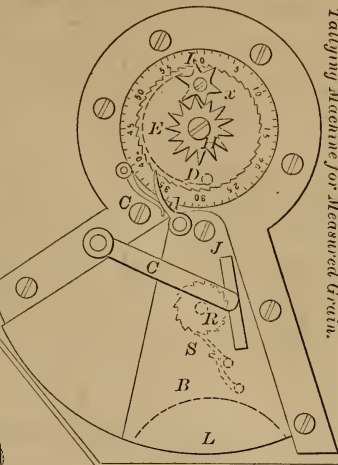
45821—C. W. Emery,

Machine for Shearing Animals.45817—W. H. Orlinton—*Seeding Machine.*45819—J. F. Dubber,
Pocket Book.

45823—D. D. Gitt—Harvester.

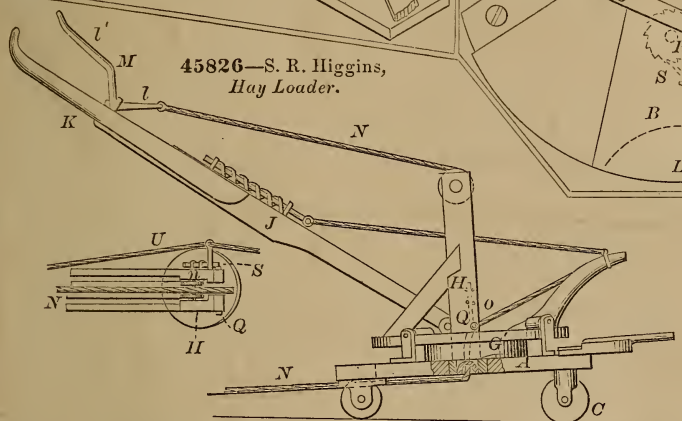


45829—S. Hudson.



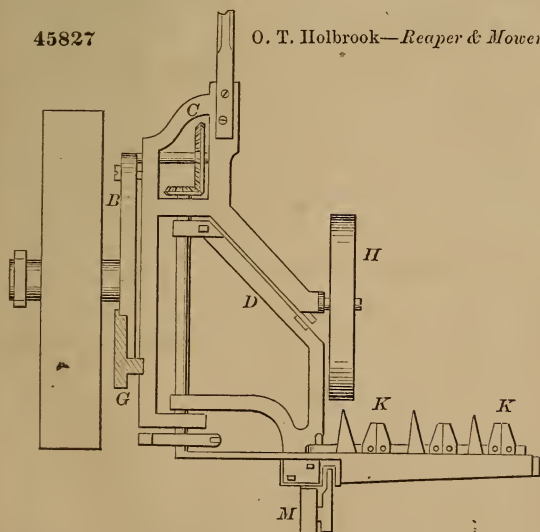
Tallying Machine for Measured Grain.

45826—S. R. Higgins,
Hay Loader.

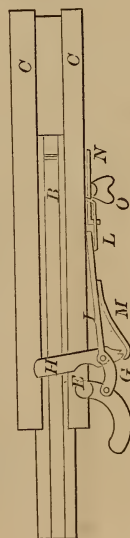


45827

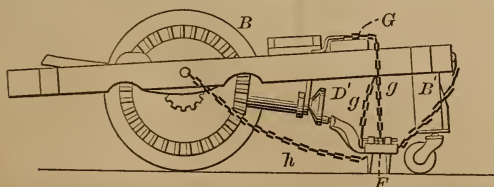
O. T. Holbrook—Reaper & Mower.



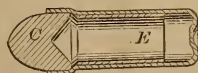
45824—I. Hart—Head Block for Saw Mill.



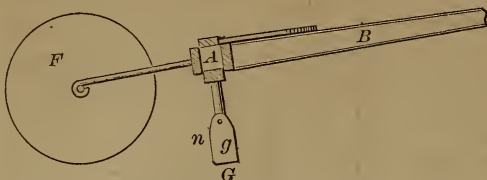
45825—Hartman & Sheller—Seeding Machine, Roller and Dray.



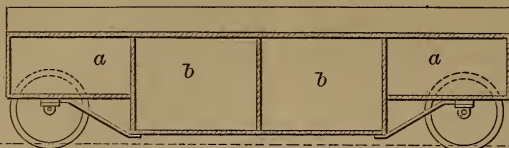
45830—S. Jackson,
Cartridge.



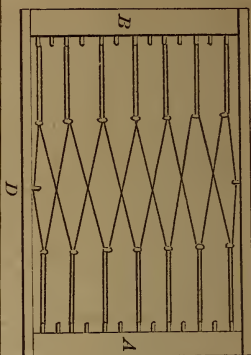
45831—C. Jarvis—Root Cultivator and Weeder.



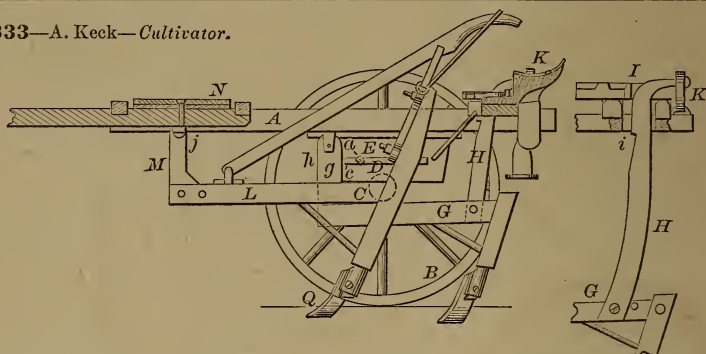
45834—J. F. Keeler—Car Truss.



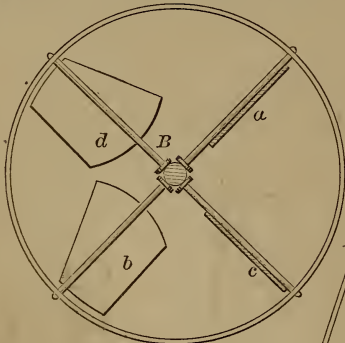
45832—F. G. Johnson—Bed Bottom.



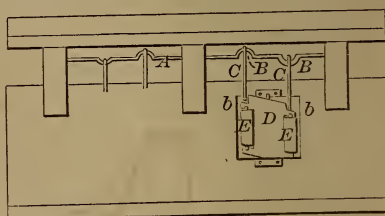
45833—A. Keck—Cultivator.



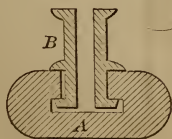
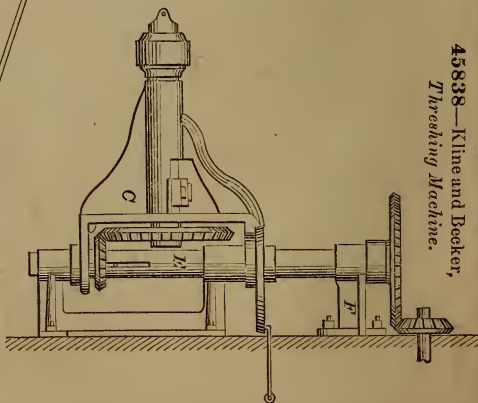
45835—G. A. Keene—Paddle Wheel.



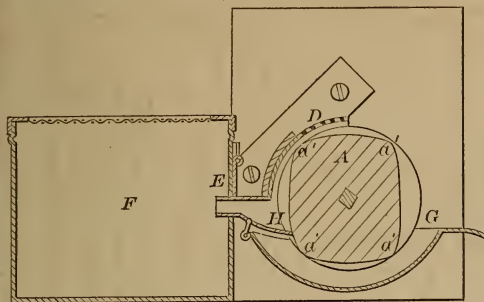
45837—J. J. Kimball—Treadle.



45836—T. Kennedy—Door Knob.

45838—Kline and Becker,
Threshing Machine.

45839—D. Lake—*Fly Trap*.

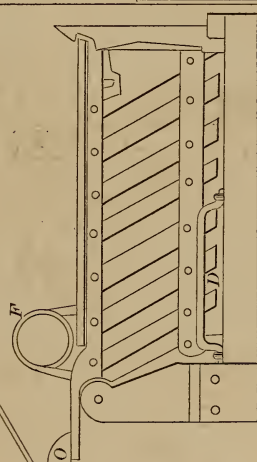
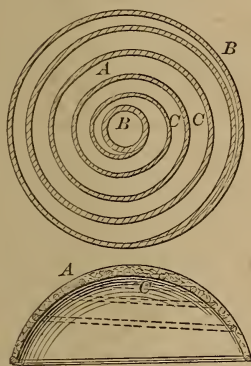


45840

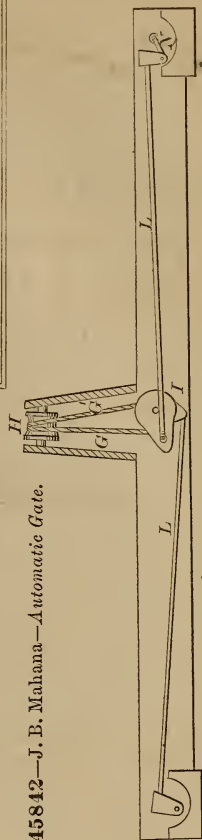
J. A. Macke—*Dress Facing.*



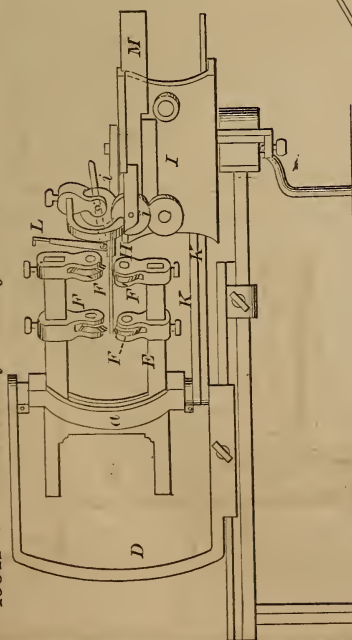
45843—J. A. Mason,
Ladies Breast Pad.



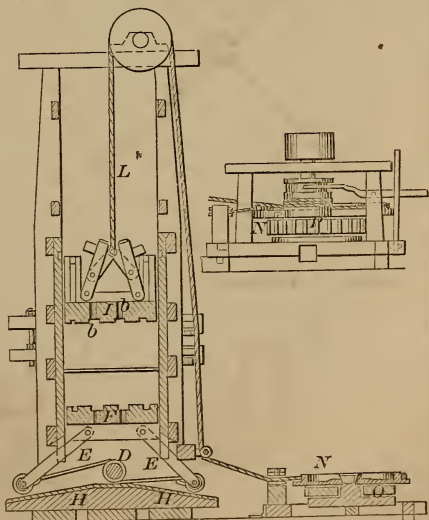
45842—J. B. Mahana—Automatic Gate.



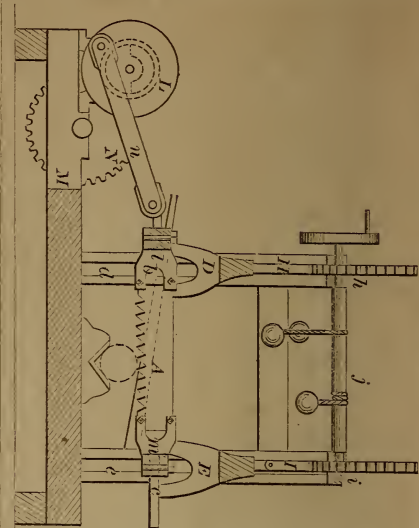
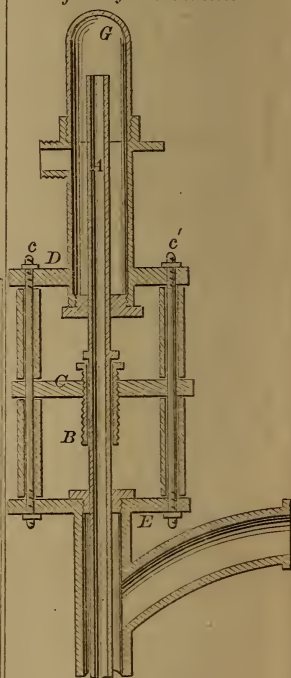
45841—II. Low—Machine for Cutting Sheet Metal.



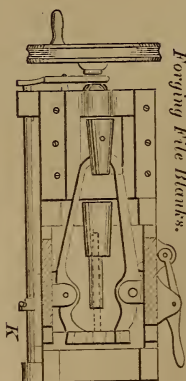
45844—J. A. McGillirrae—*Press.*



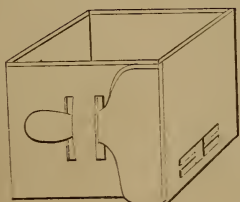
45847—H. J. Miller—Sawing Machine.

45849—G. M. Mowbray,
Ejector for Oil Wells.

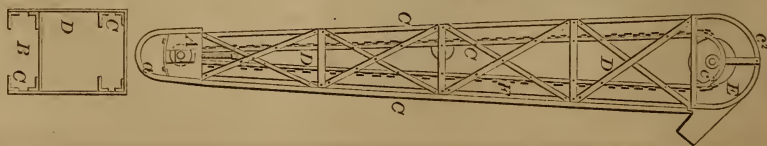
45845—H. B. Meech—Rotary Boiler for Paper Pulp.

45850—W. T. Nicholson—Machine for
Forging File Blanks.

45848—E. Morris—Fruit Box

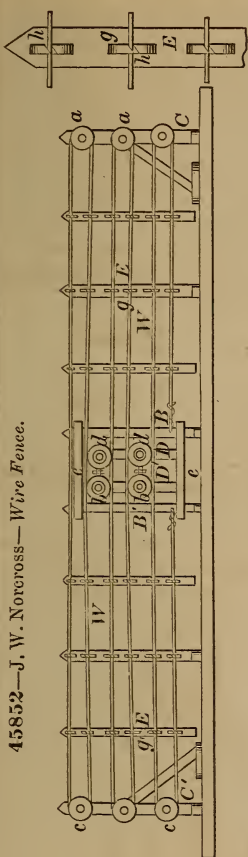


A. B. Nimbs—Elevator.

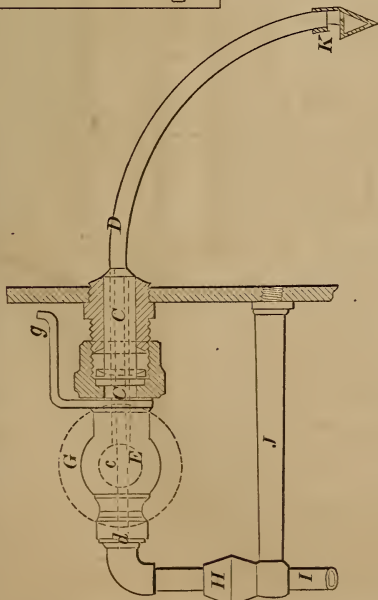


45851

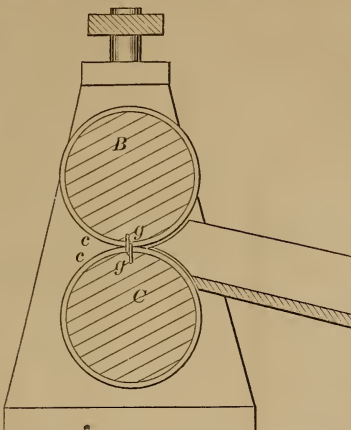
45852—J. W. Norcross—Wire Fence.



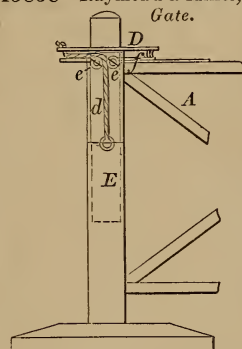
45856—T. Poore—Water Gauge for Steam Generator.



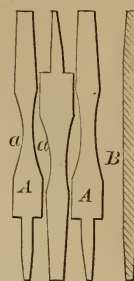
45853—G. H. Nye—Baling Hay.



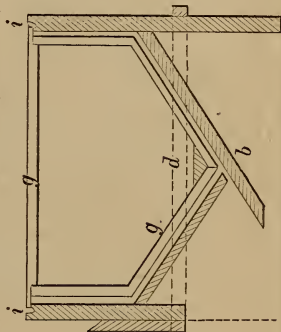
45858—Raymond & Miller, Gate.



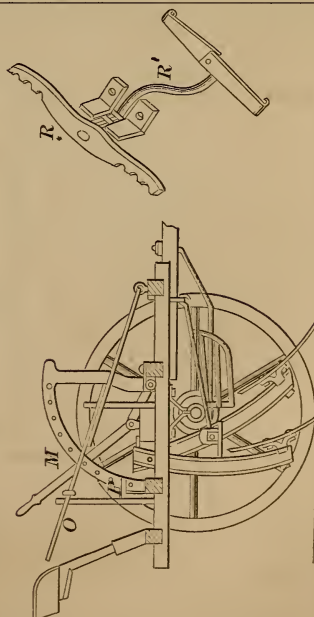
45854—G. Parr—Screw Driver.

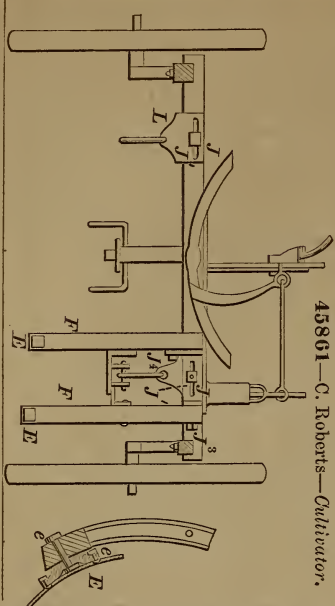


45859—O. P. Reeve—Beehive.

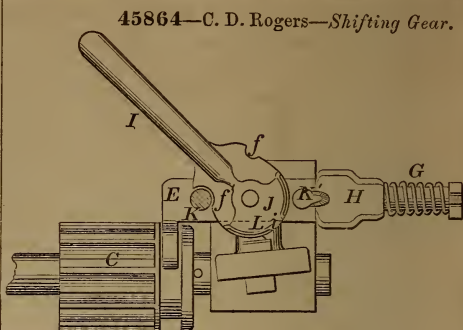


45860—C. Roberts—Cultivator.

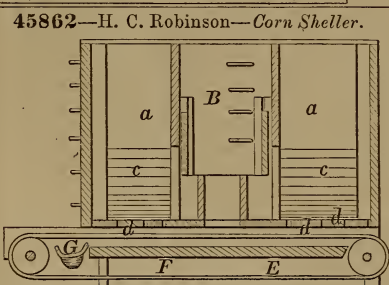




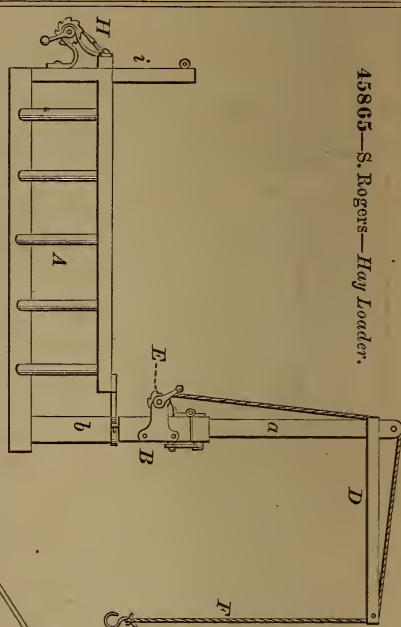
45861—C. Roberts—Cultivator.



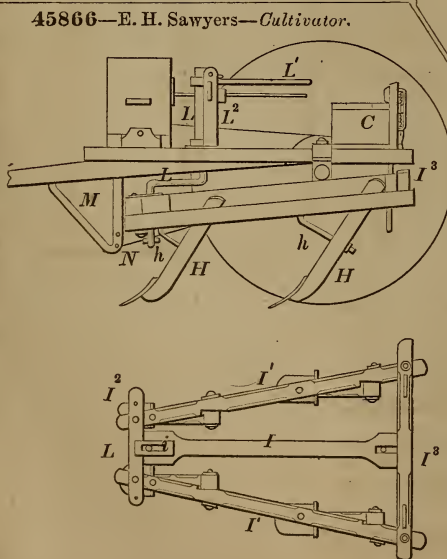
45864—C. D. Rogers—Shifting Gear.



45862—H. C. Robinson—Corn Sheller.

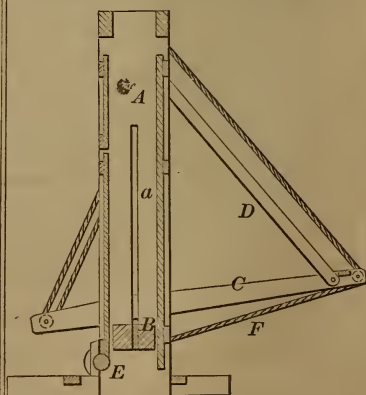


45865—S. Rogers—Hay Loader.

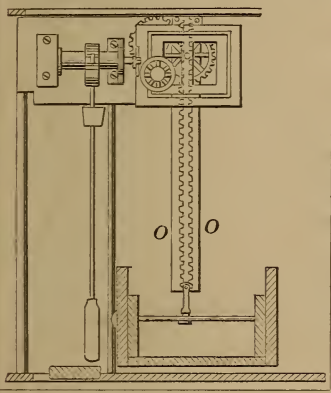
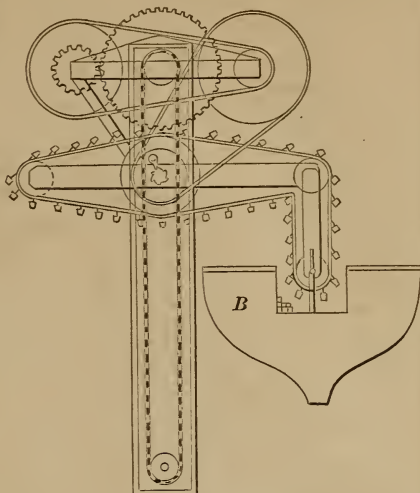
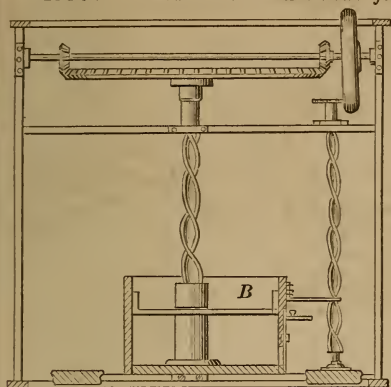


45866—E. H. Sawyers—Cultivator.

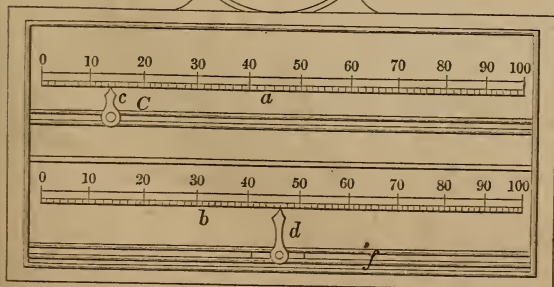
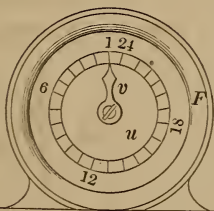
45863—C. H. Robinson—Baling Press.



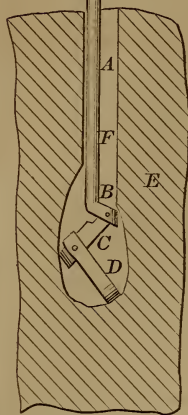
45867—A. W. Scharit—*Motive Power from Rise and fall of Tide.*



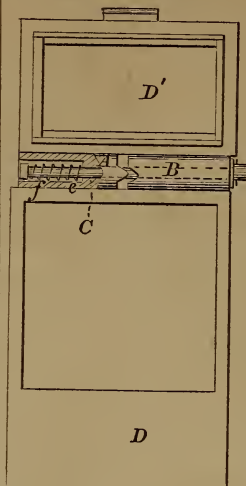
45868 B. Schmitz—*Billiard Indicator.*



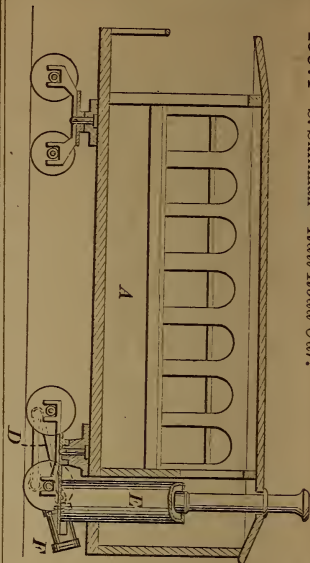
45869—J. Sheffield—
Drill for Boring Wells.



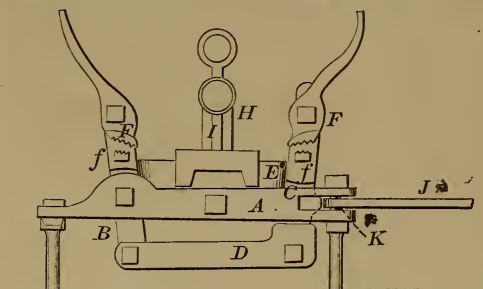
45870—S. T. Shelley
Railroad Axle Box.



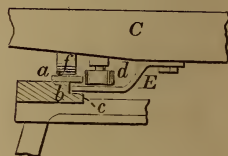
45871—S. Skillman—Rail Road Car.



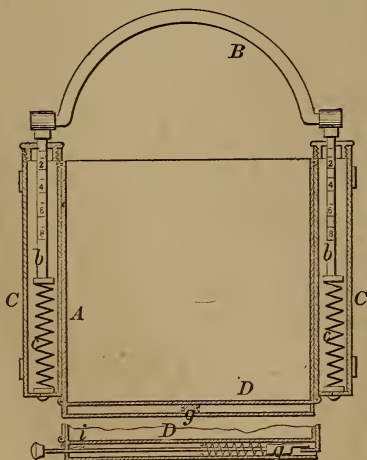
45872—C. V. Statler—For Shrinking Tire.



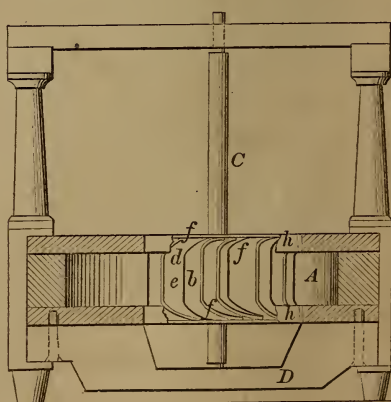
45874—J. Stevens—Sled.



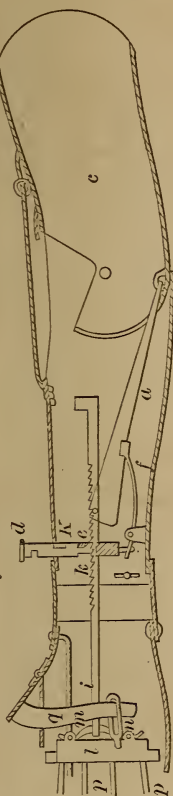
45873—D. D. Stelle—Weighing Bucket.



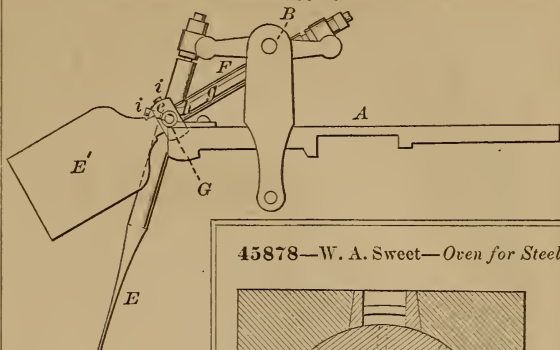
45875—R. Stewart—Water Wheel.



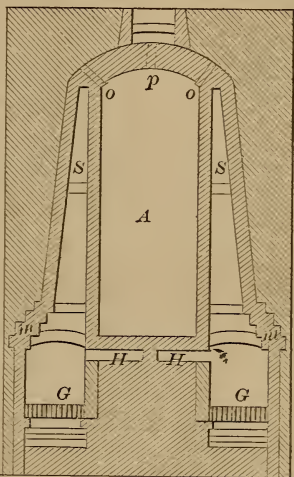
45876—L. Stollé—Artificial Arm.



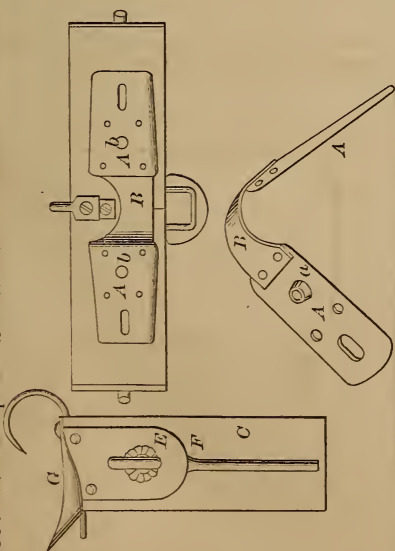
45877—C. H. Stratton—Digging Machine.



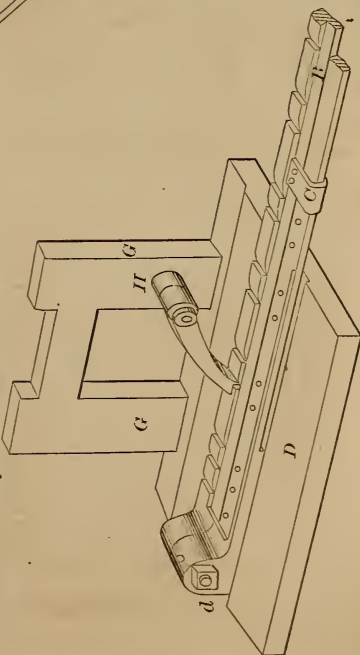
45878—W. A. Sweet—Oven for Steel.



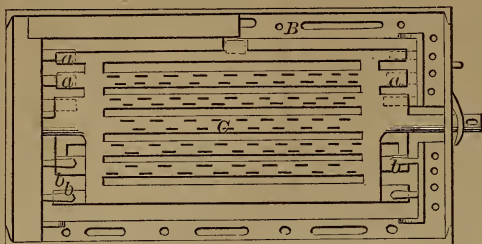
45880—S. E. Tompkins—Saddle Tree.



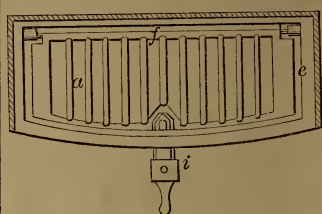
45879—G. G. Taylor—Harvester Cutter Bar.



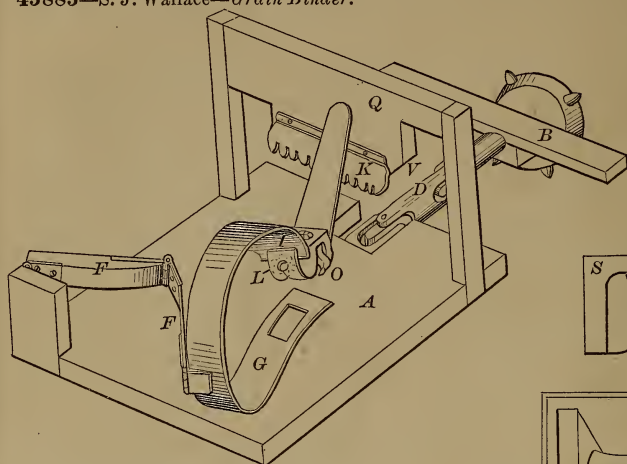
45881—G. Vander Heyden—*Stove Grate.*



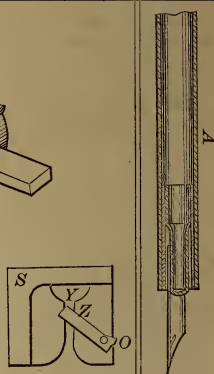
45883—G. W. Walker—*Stove Grate.*



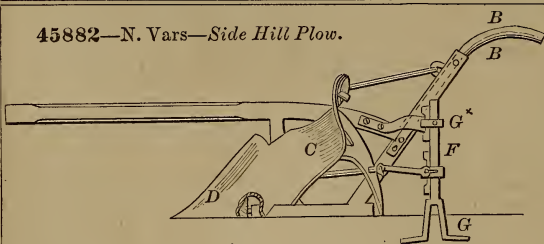
45885—S. J. Wallace—*Grain Binder.*



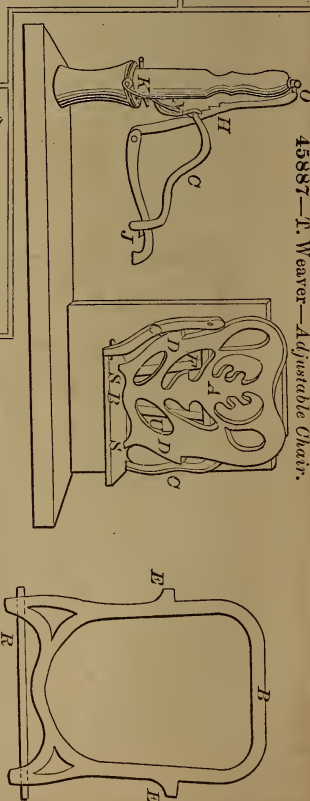
45884—S. Walker—PenHolder.



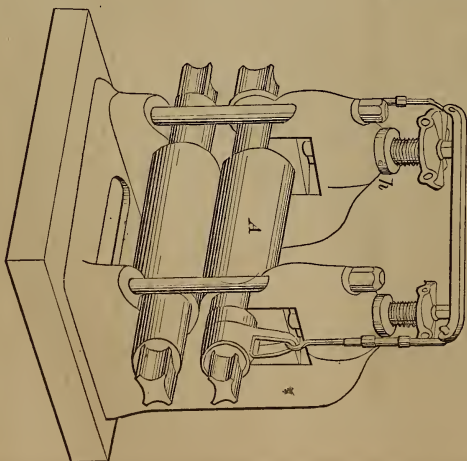
45882—N. Vars—*Side Hill Plow.*



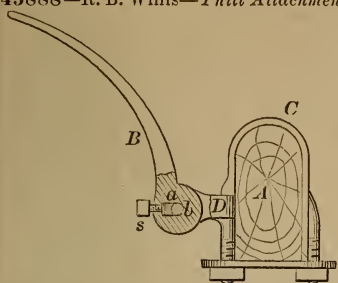
45887—T. Weaver—Adjustable Chair.



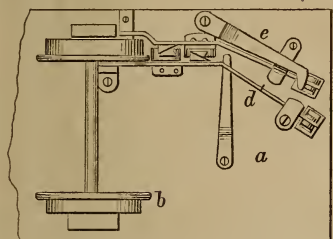
45886—II. Waters—For Rolling Metals.



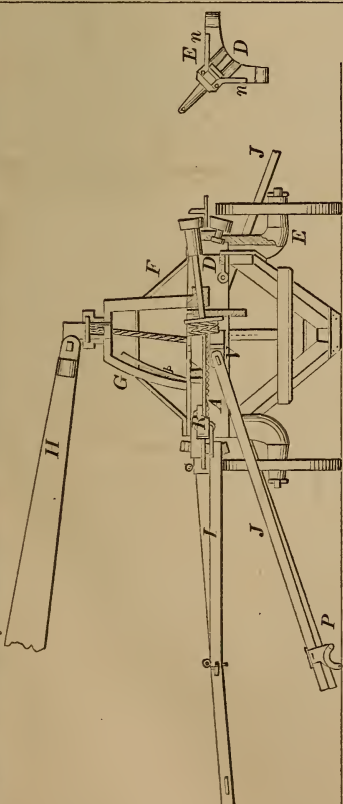
45888—R. B. Willis—*Thill Attachment.*



45889—J. F. Wilson—*Switch.*

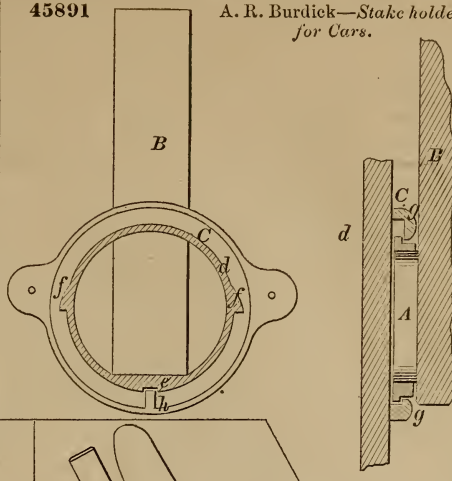


45890—D. Woodbury—*Derrick.*

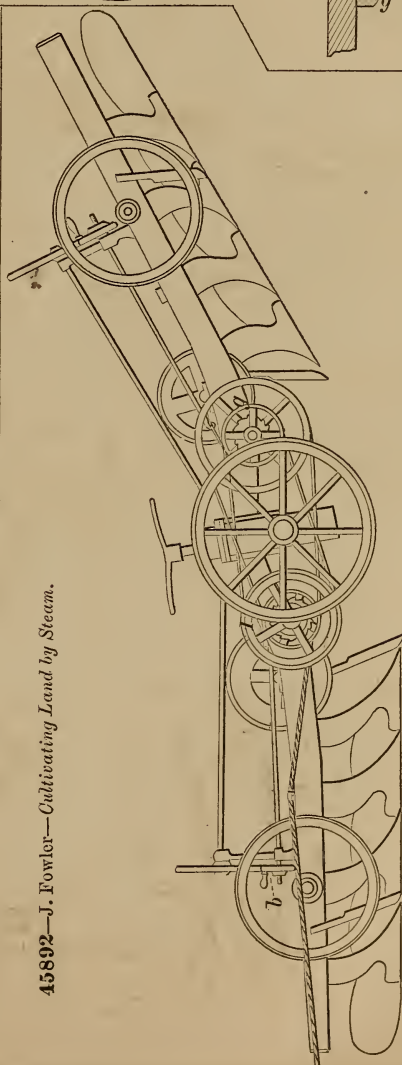


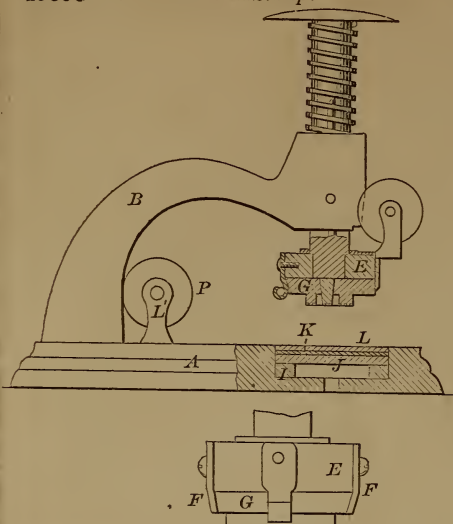
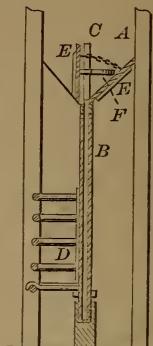
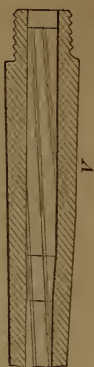
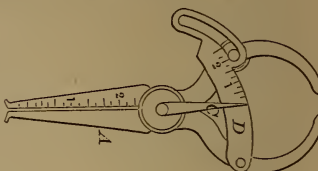
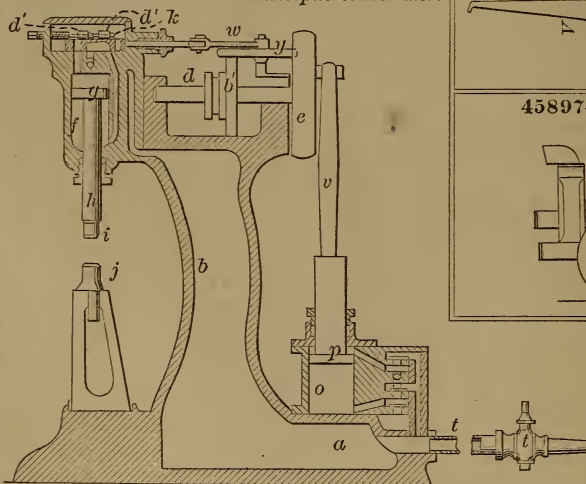
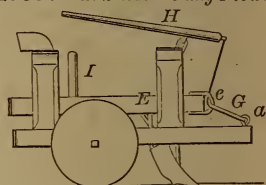
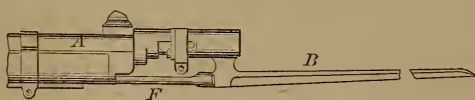
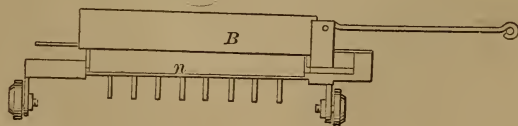
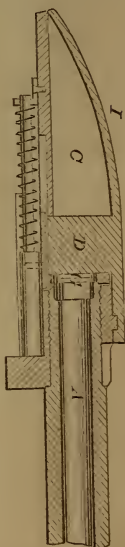
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A. R. Burdick—*Stake holder for Cars.*

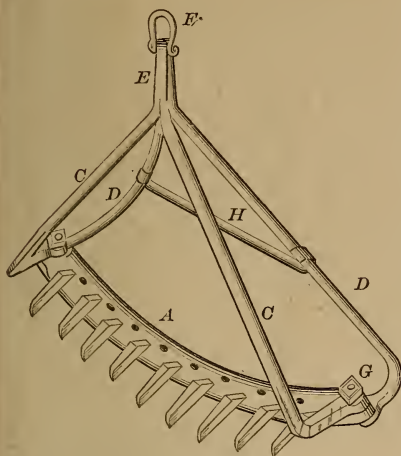


45892—J. Fowler—*Cultivating Land by Steam.*

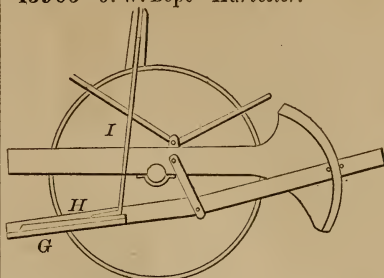


45893—G. J. Hill—*Hand Stamp.*45895—P. J. Boris,
Revolving Grate.45898—H. Berdan—*Rifling Fire Arms.*45894—F. O. Washburn,
Cutlippers.45896—W. D. Grimshaw—*Atmospheric Hammer.*45897—T. Short—*Gang Plow.*45901—H. Berdan—*Bayonet Attachment.*45903—D. L. & J. M. Barlow—*Harrow and Seeder.*45899—H. Berdan—*Breech Loading Fire Arm.*

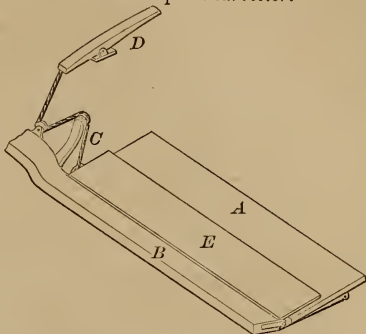
45904—W. Belbin—*Oyster Dredge.*



45905—J. W. Bope—*Harvester.*

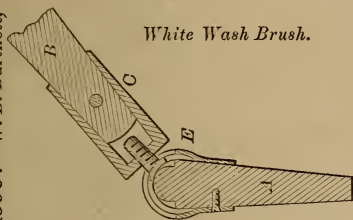


45906—J. W. Bope—*Harvester.*

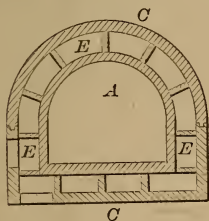


45907—W. B. Burtnett,

White Wash Brush.



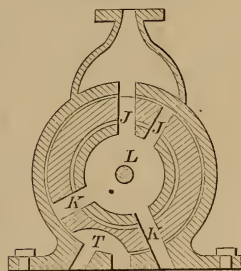
45908—J. Chilcott—*Retort.*



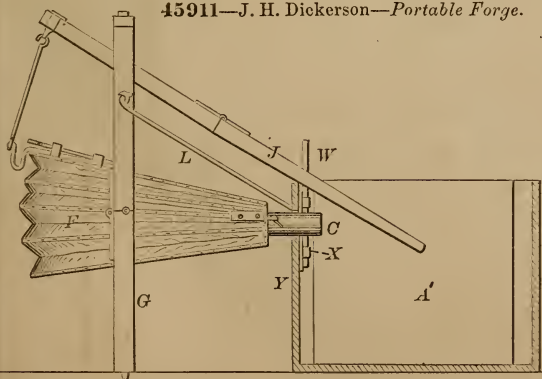
45909—G. F. J. Colburn—*Comb.*



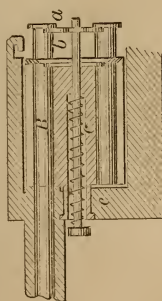
45910—G. Davis,
Oscillating Valve.



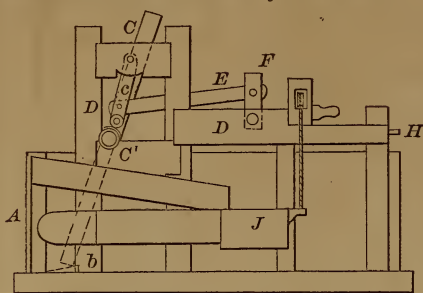
45911—J. H. Dickerson—*Portable Forge.*



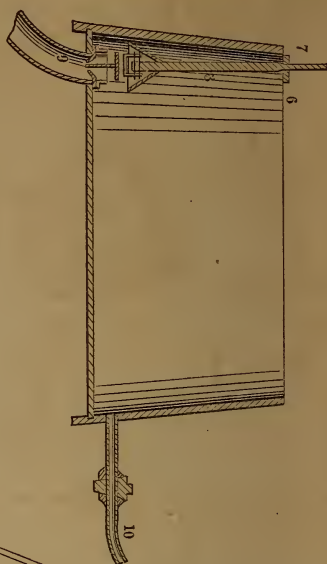
45912—W. C. Dodge—*Cartridge Retractor.*



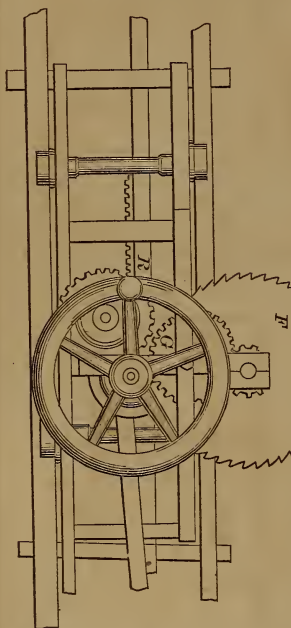
45913—J. Du Bois—Revolving Flood Gate.



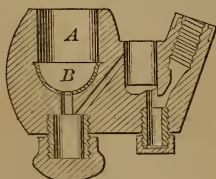
45914—D. Embree—Removing Incrustation from Boilers.



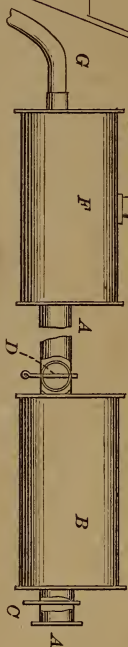
45917—J. S. Fisk—Coal Mining Machine.



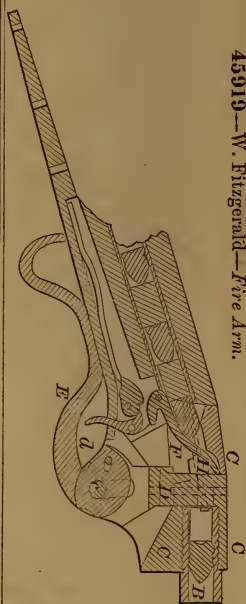
45916—F. Fickey—Smoking Pipe.



45918—J. S. Fisk—Mode of Ventilating Mines.

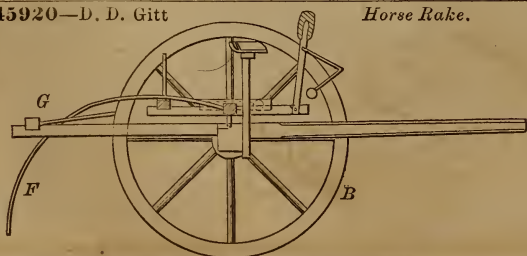


45919—W. Fitzgerald—Fire Arm.



45920—D. D. Gitt

Horse Rake.

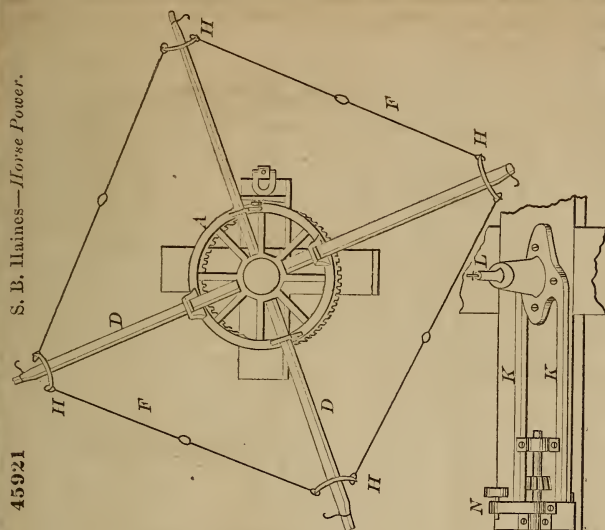


S. B. Haines—Horse Power.

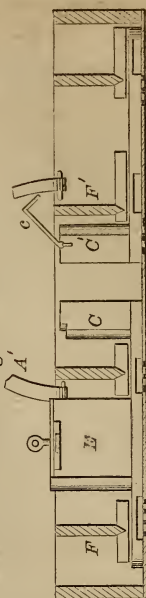
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45925—J. C. Kenedy—Straw Cutter.

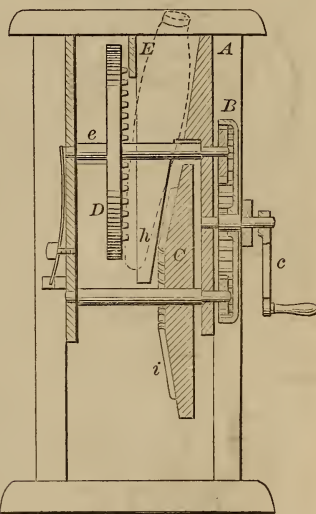
45926—W. A. L. Kirk—Sod Cutter.



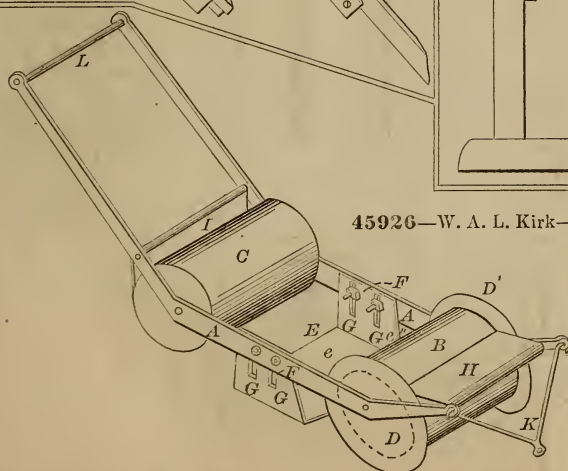
45923—J. M. Harsbarger—Seed Sifter.



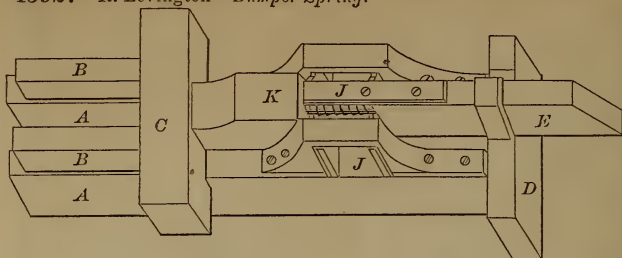
45924—D. Hutchinson,
Corn Sheller.



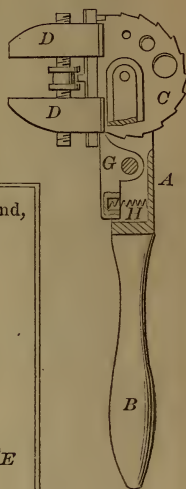
45926—W. A. L. Kirk—Sod Cutter.



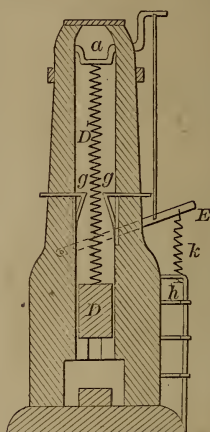
45927—R. Levington—Bumper Spring.



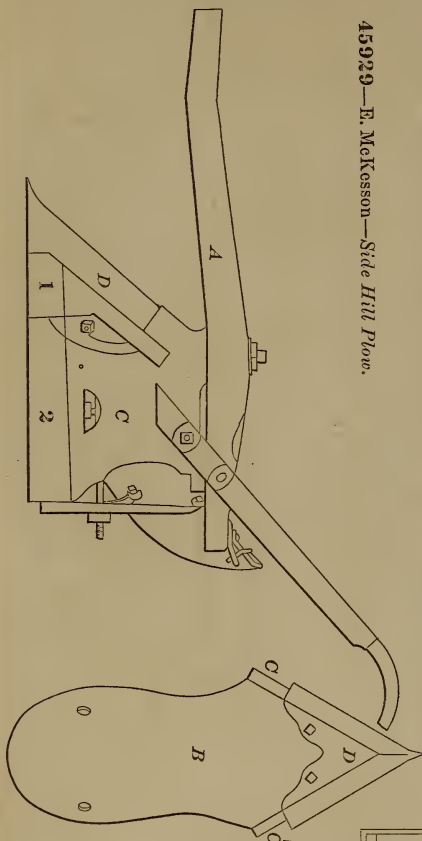
45931—G. Meader, Wrench.



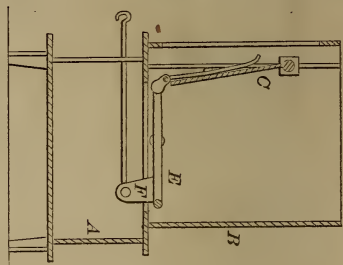
45928—E. F. McFarland, Forging Apparatus.



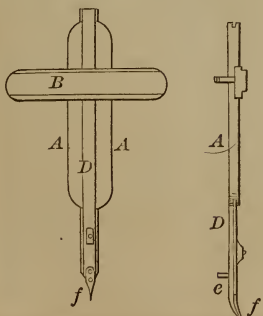
45929—E. McKesson—Side Hill Plow.



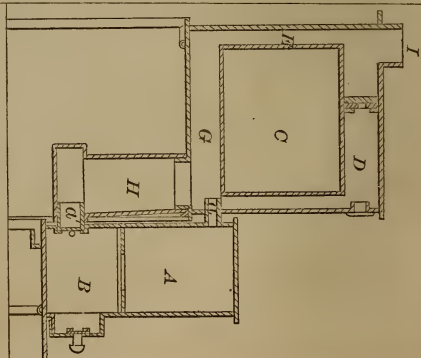
45933—J. R. Moore, Fire Chamber Cleaner.



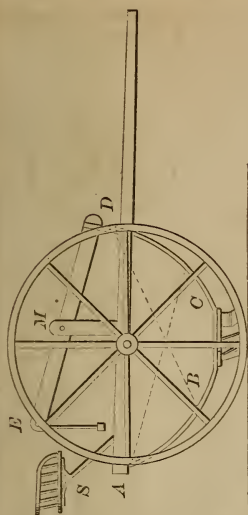
45932—G. Miller—Carpenter's Gauge.



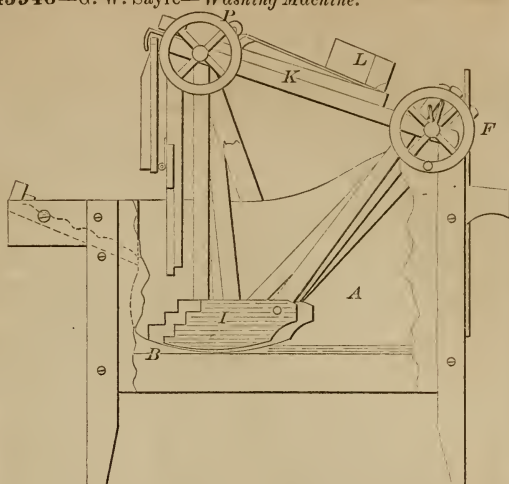
45930—J. McKnight—Cooking Stove.



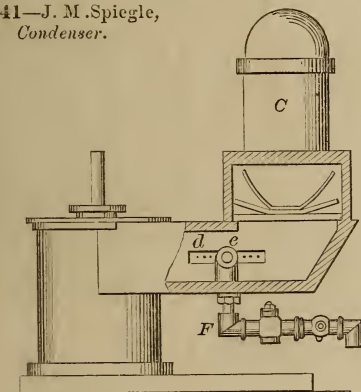
45934—E. C. Patterson—Cultivator.



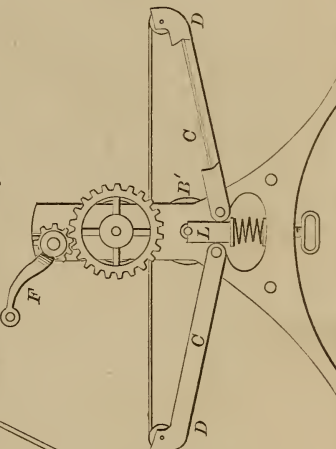
45940—G. W. Sayre—Washing Machine.



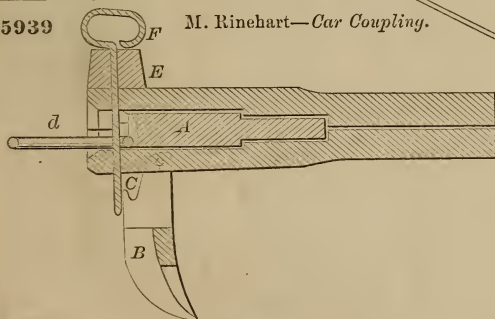
45941—J. M. Spiegle, Condenser.



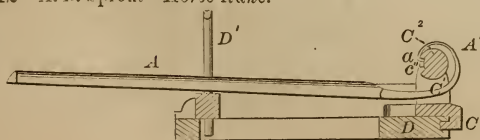
45938—W. Price—Mangle.



45939 M. Rinehart—Car Coupling.

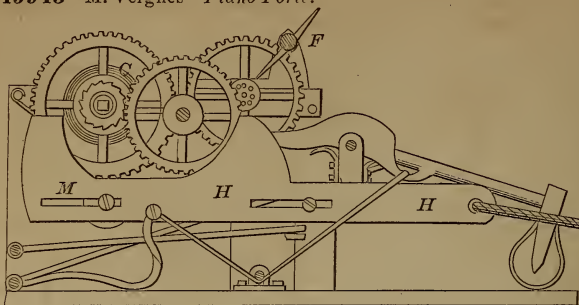
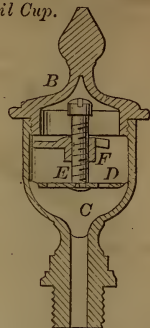
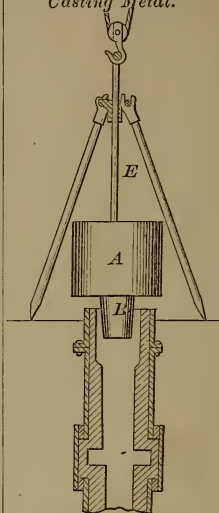
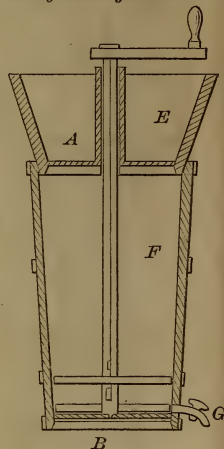
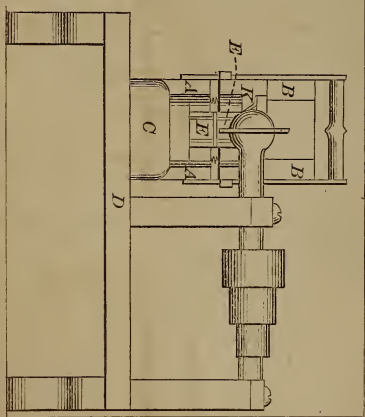
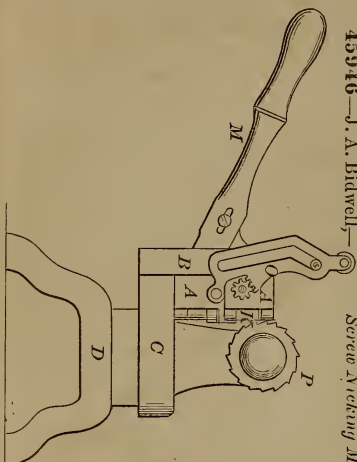
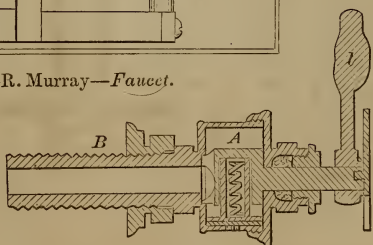
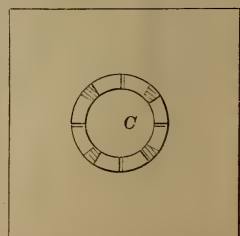
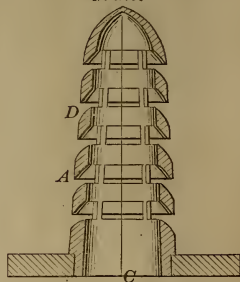


45942—A. B. Sprout—Horse Rake.

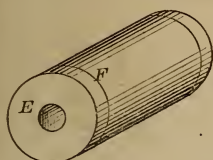


45936—D. Phillips—Lath.

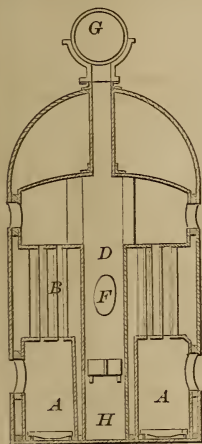


45943—M. Vergnes—*Piano Forte*.45945—E. Weissenborn,
Oil Cup.45947—J. D. Rosthorn,
Casting Metal.45944—O. G. Warren.
Amalgamating Metals.45946—J. A. Bidwell,
Screw Nicking Machine.45949—R. Murray—*Faucet*.45948—L. G. Marshall,
Grate.

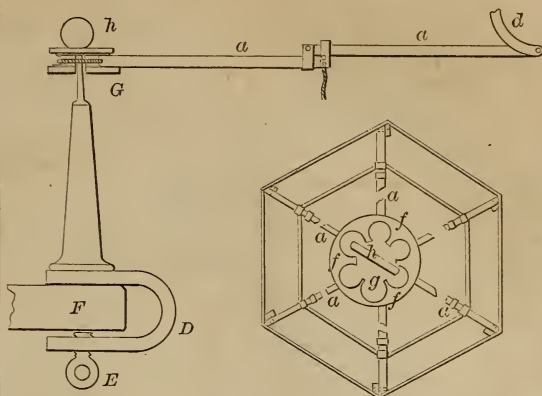
45951—F. Schenk—*Packing for Rifled Projectiles.*



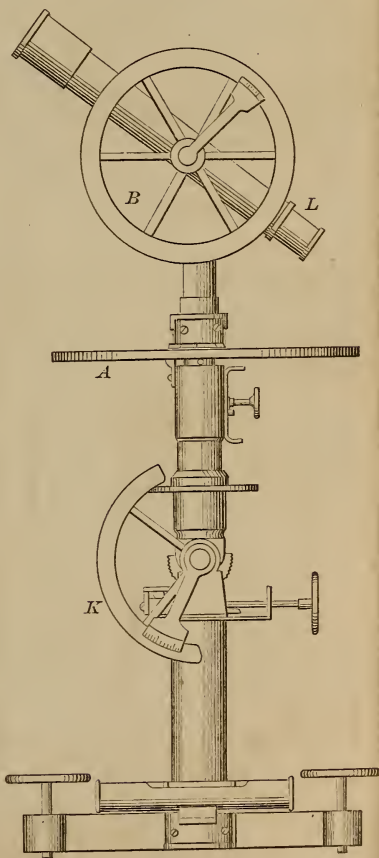
45955—L. E. C. Martin, *Steam Boiler.*



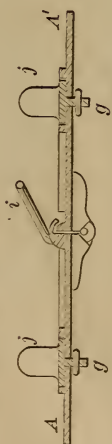
45953—J. Crutchett—*Thread Winder.*



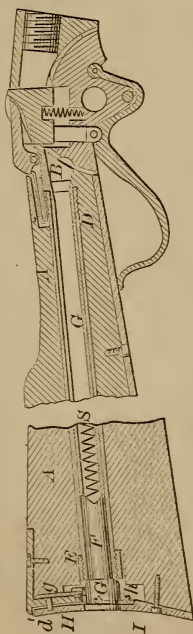
45954—C. Emmanuel—*Astronomical Instrument.*



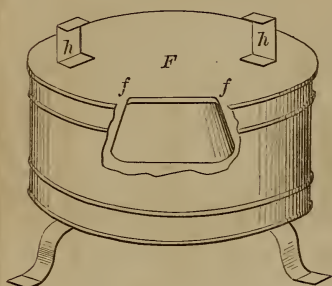
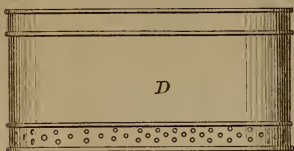
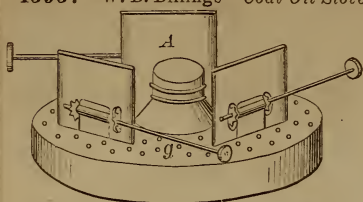
45956—H. H. Baker—*Fire Bank.*



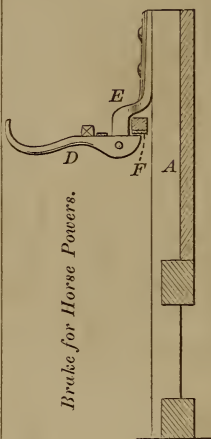
45952—C. M. Spencer—*Fire Arm.*



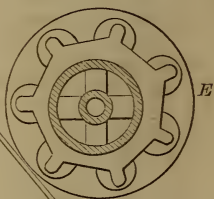
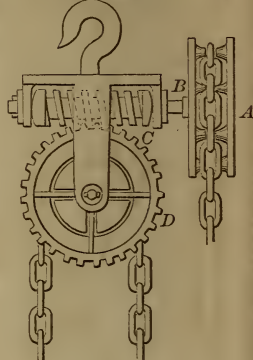
45957—W. B. Billings—Coal Oil Store.



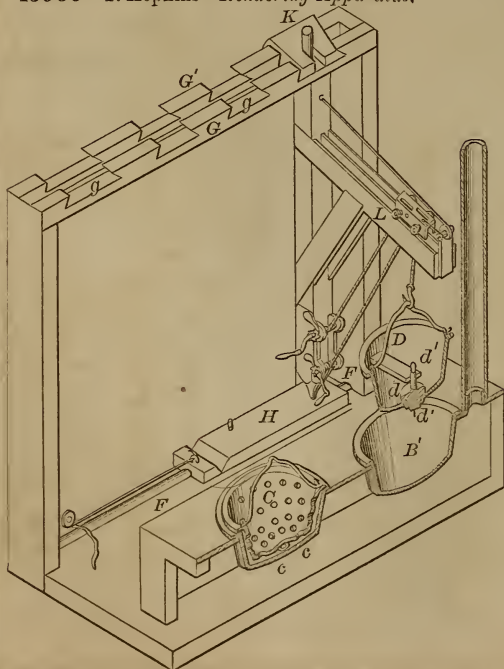
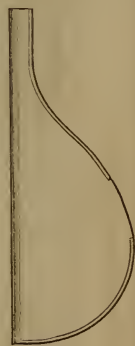
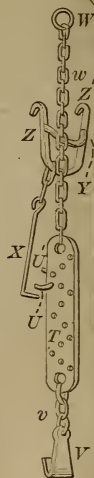
45958—J. C. Bird,



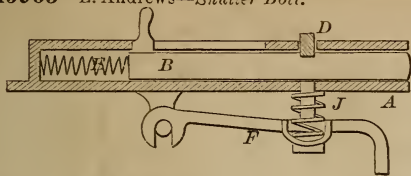
45962—C. Abel—Hoisting Machine.



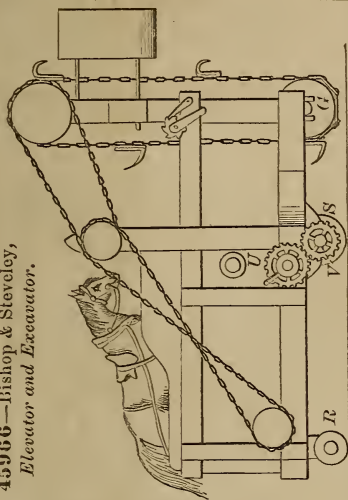
45960—T. Hopkins—Rendering Apparatus.

45959—T. G. Crosby,
Rudder.

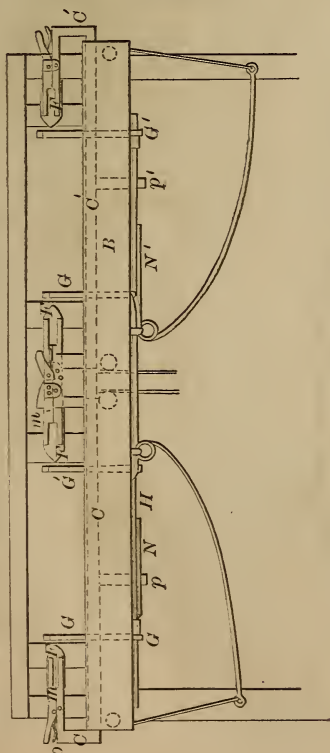
45963—E. Andrews—*Shutter Bolt.*



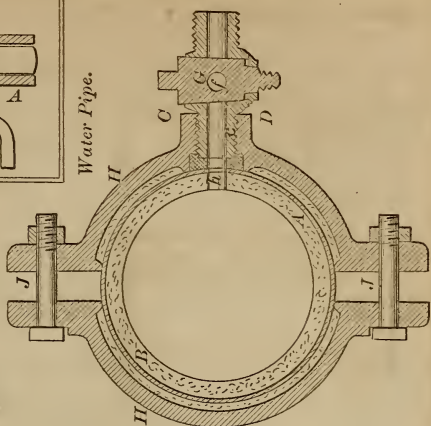
45966—Bishop & Staveley,
Elevator and Excavator.



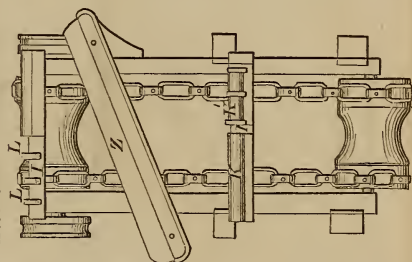
45969—W. Breitenstein—*Loom.*



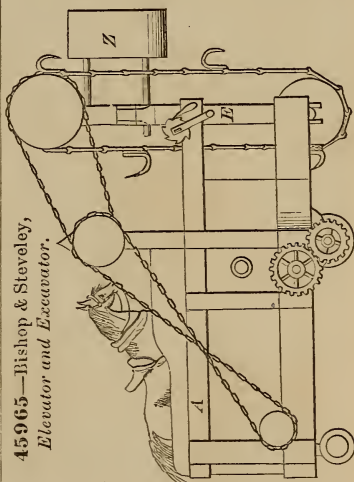
45964—P. Ball.



45967—Bishop & Staveley,
Elevator and Excavator.



45965—Bishop & Staveley,
Elevator and Excavator.



45968—Bishop & Staveley,
Elevator and Excavator.

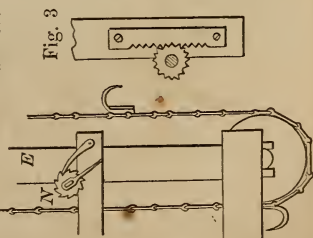
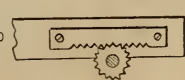
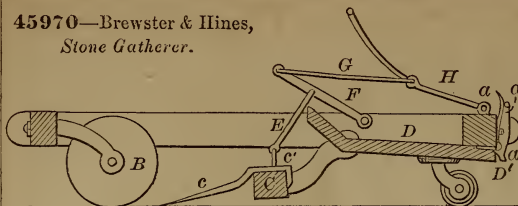


Fig. 3



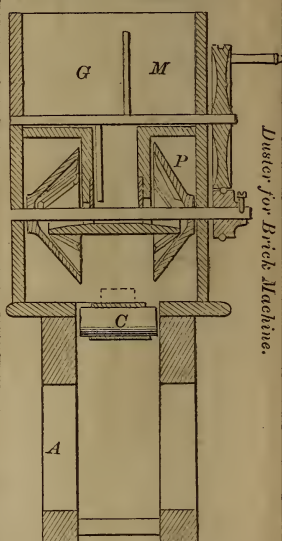
45970—Brewster & Hines,
Stone Gatherer.



45971—Bunch & Price—Corn Planter.

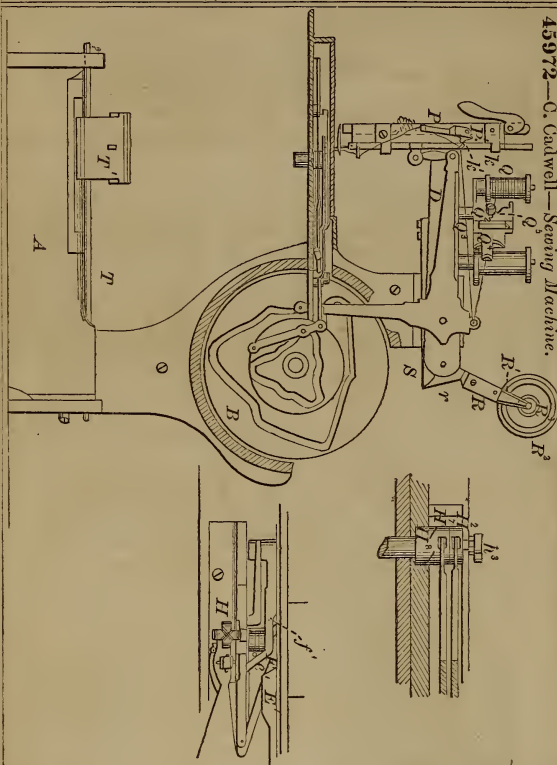


45974—C. Chambers Jr.

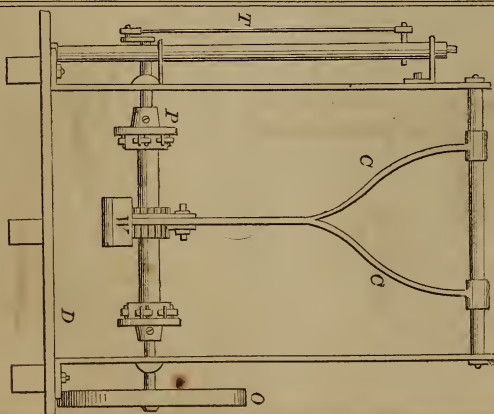


Duster for Brick Machine.

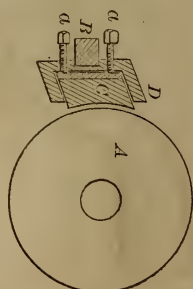
45972—C. Cadwell—Sewing Machine.



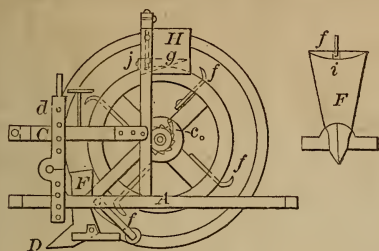
45973—A. Cain—Working Ships Pumps.



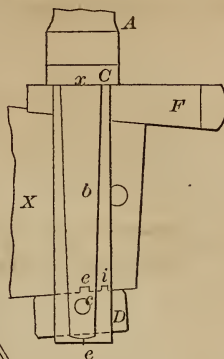
45975—J. H. Champlin—Car Brake.



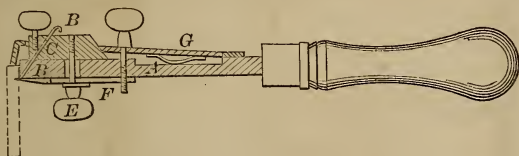
45976—O. N. Chase—Seed and Potato Planter.



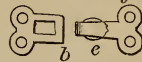
45980—C. Disston—Saw Handle.



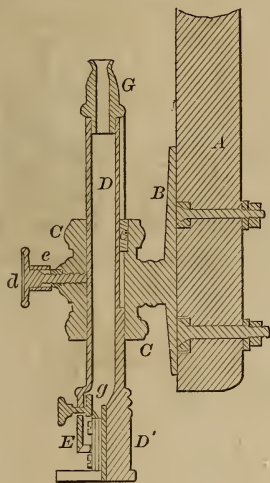
45978—E. H. Crane—Channelling Tool.



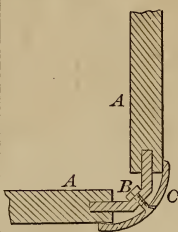
45979—J. P. Culver, Hooks and Eyes.



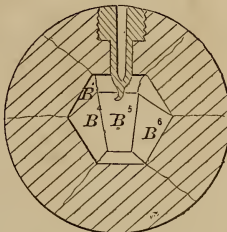
45981—W. H. Doane—Scroll Saw.



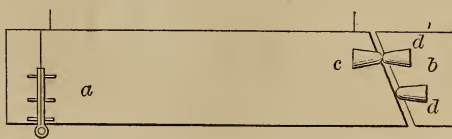
45982—P. Dodge, Soap Stone Stove.



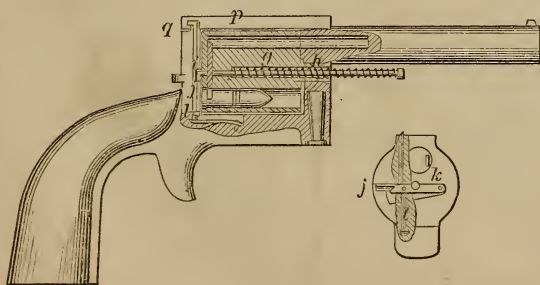
45985—E. Estabrook—Explosive Shell.



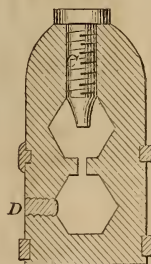
45984—A. Eliaers—Elastic Stud for Doors.



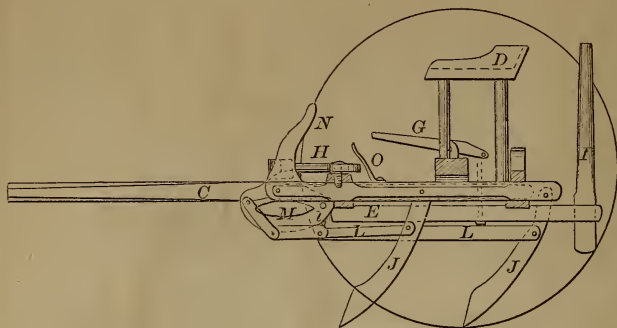
45983—W. C. Dodge—Revolving Fire Arm.



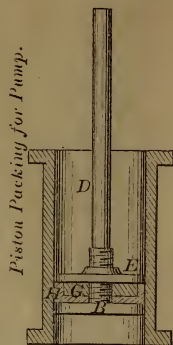
45986—E. Estabrook, Fuze for Shells.



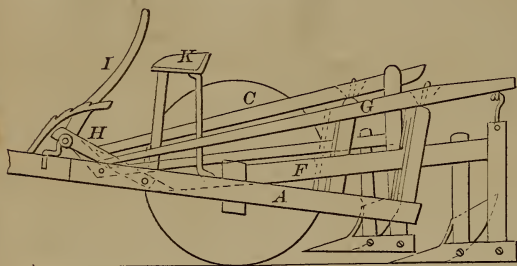
45987—J. W. Fawkes—*Cultivator*.



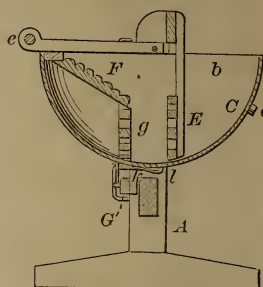
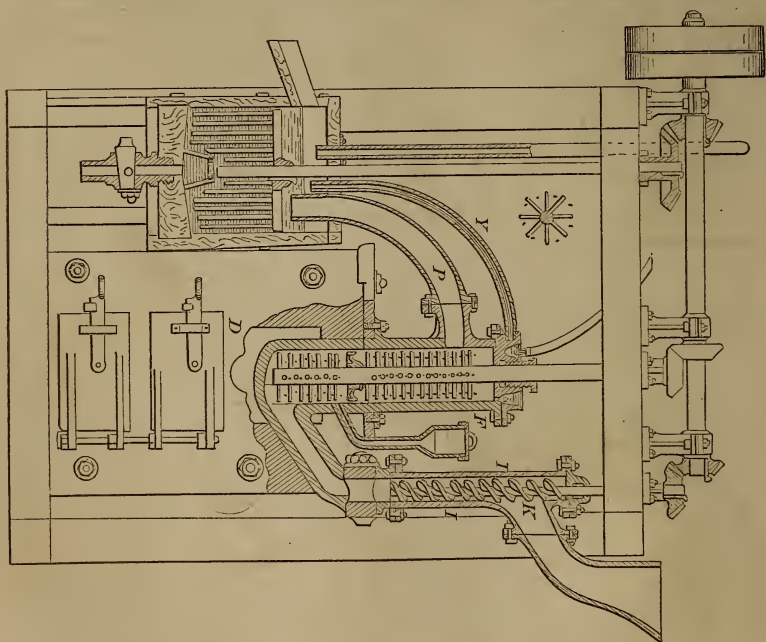
45989—D. B. Fuller,



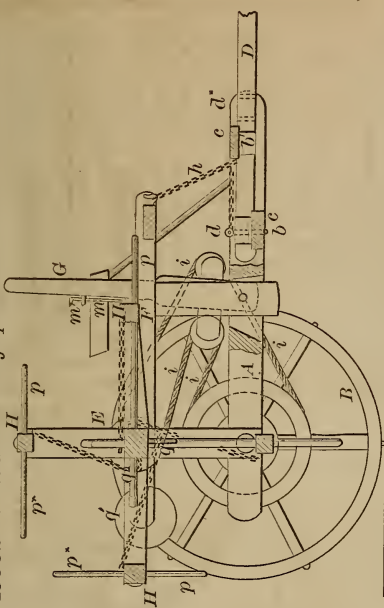
45988—W. H. Freeman—*Gang Plow.*



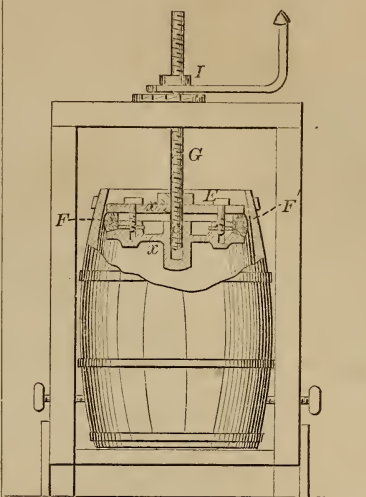
45990—S. Gambell—*Washing Machine.*

45991—E. P. Gardiner—*Treatment of Ores.*

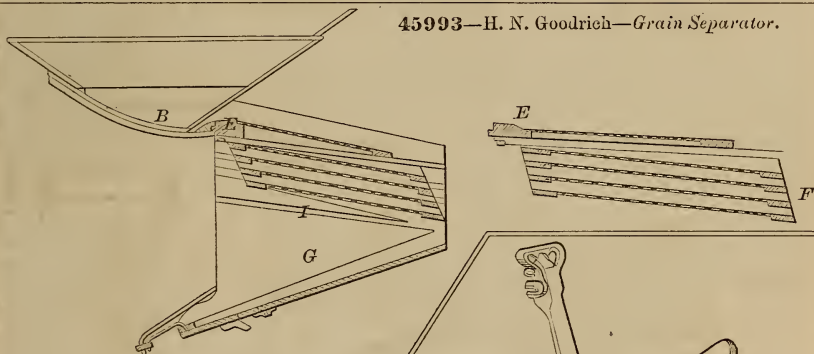
45992—W. C. Gifford—Hay Spreader.



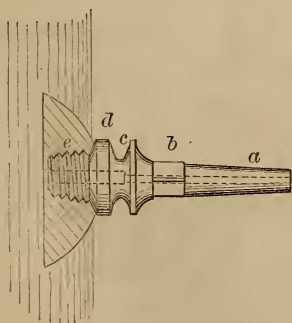
45994—J. Haego—Beer Cask.



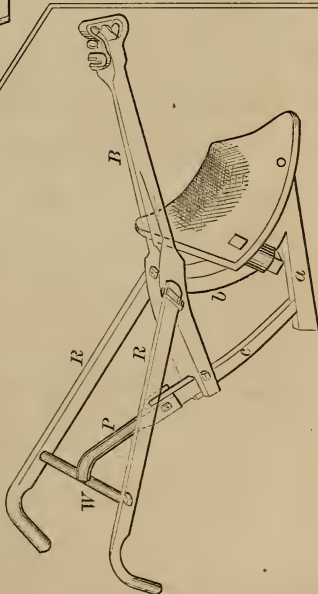
45993—H. N. Goodrich—Grain Separator.

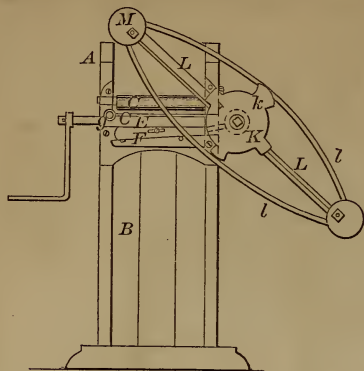
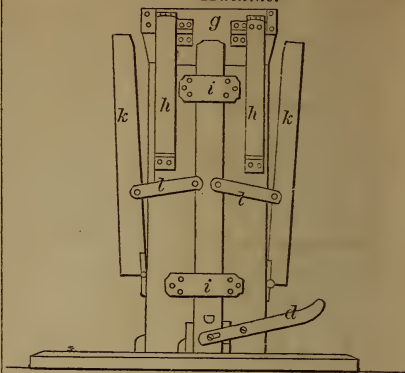
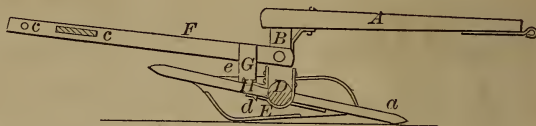
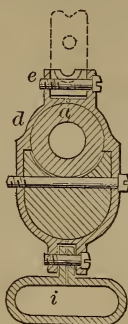
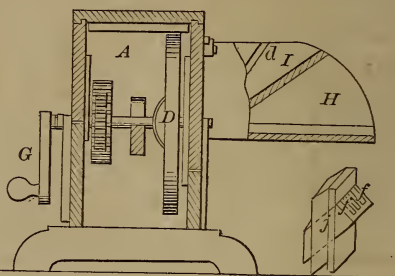
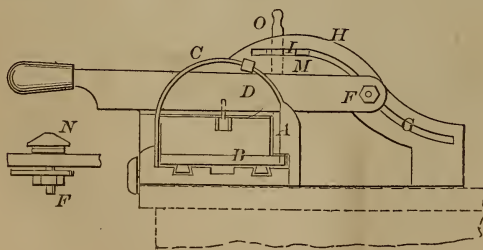


45996—M. Hays—Sap Spile.

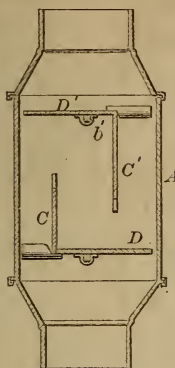


45995—J. Hanes—Plow.

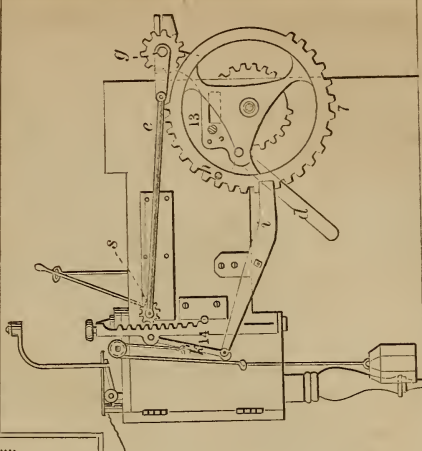


45997—C. R. Hewett—*Straw Cutter.*45999—E. A. Hollingsworth,—*Paper Bag Machine.*46001—E. Huber—*Horse Rake.*45998—J. H. Hoffman,
Paper Collar.46000—F. W. Howe,
Sight for Fire Arms.46002—F. Hüllhorst—*Vegetable Cutter.*46003—F. Hüllhorst—*Bread Cutter.*46004—F. Jacob—*Servic Propeller.*

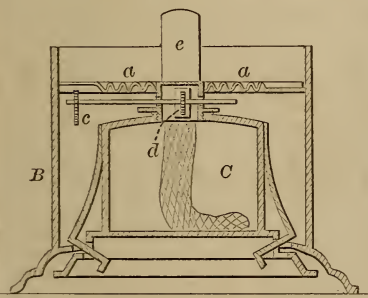
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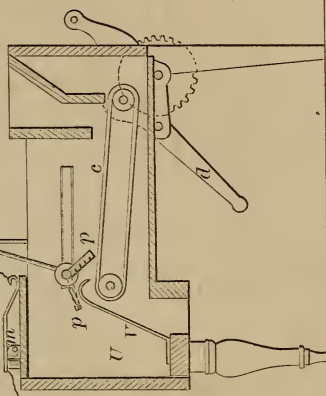
Mackwitz & Frankfurth—Stove Pipe Damper.



46010—G. C. Merrill—Lantern.



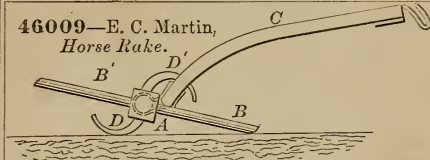
46005—J. Jonson—Separating Metallic Filings.



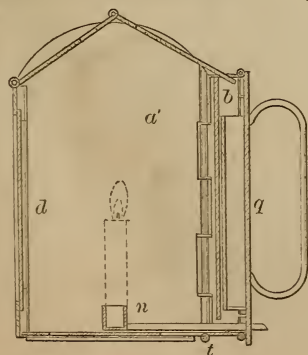
46008—T. Mayhew.
Photographic Card Mount.



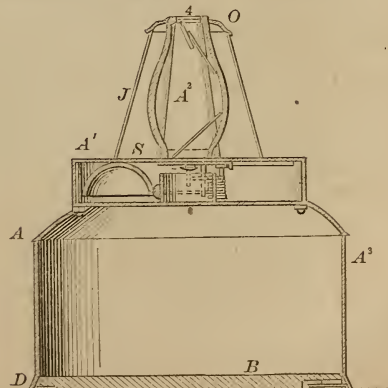
46009—E. C. Martin,
Horse Rake.



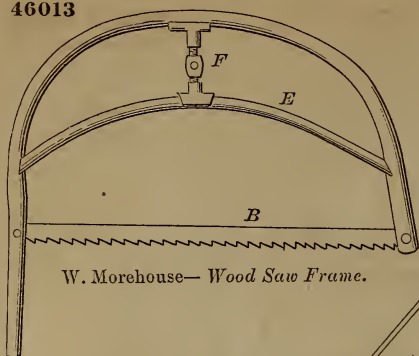
46011—J. A. Minor—Pocket Lantern.



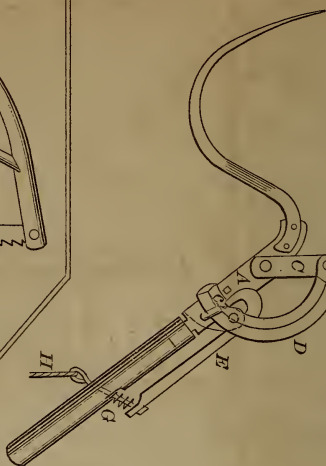
46012—J. A. McPherson—Ballot Box.



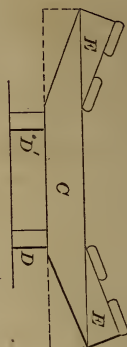
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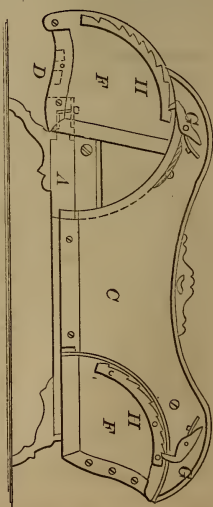
46018—W. S. Newton—Hay Elevating Fork.



46017—A. Naramor—Hay Rack.



46014—J. W. Moyer—Sofa.



46015—J. W. Moyer—Sewing Machine.

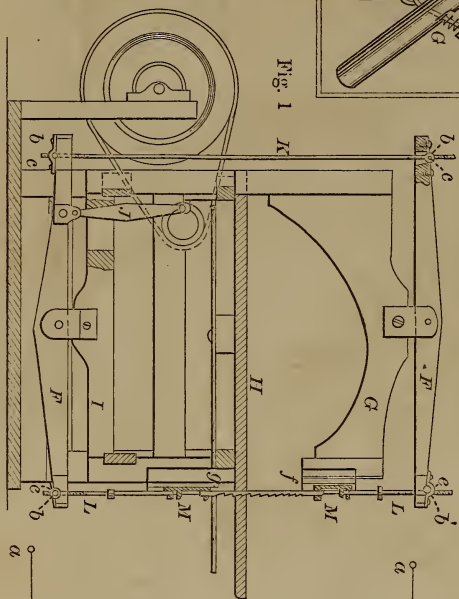
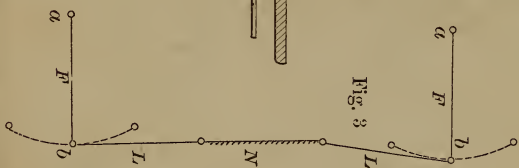
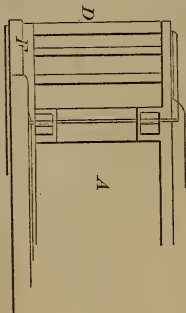
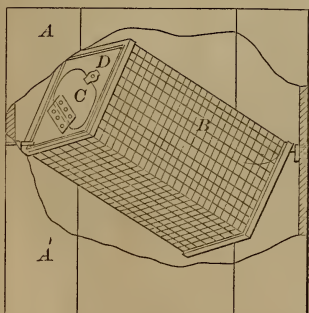


Fig. 1

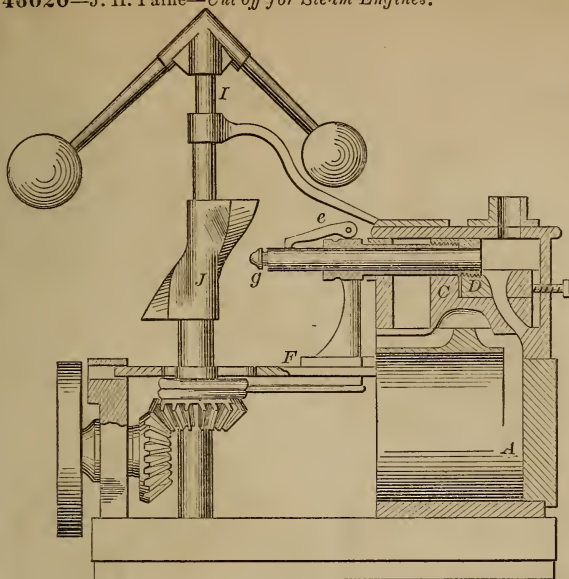
Fig. 3



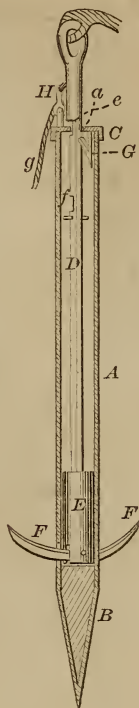
46019—A. M. Oids—Coal Screen.



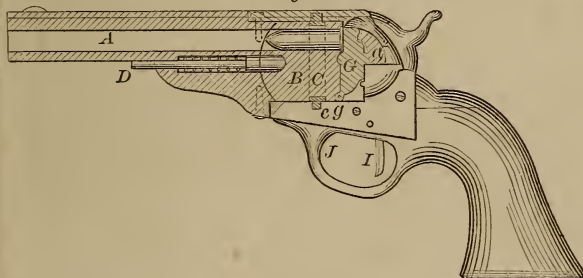
46020—J. H. Paine—*Cut off for Steam Engines.*



46027—S. Rogers,
Hay Elevator.

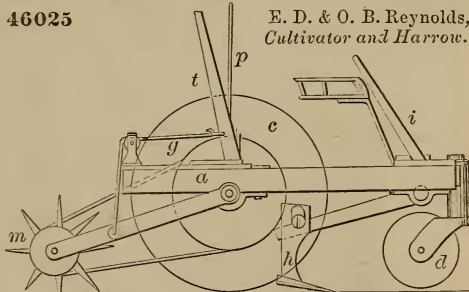


46023—R. H. Plass—*Revolving Fire Arm.*

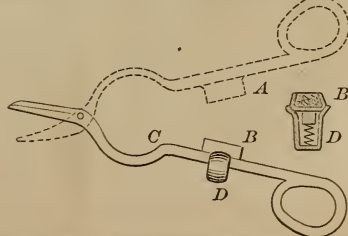


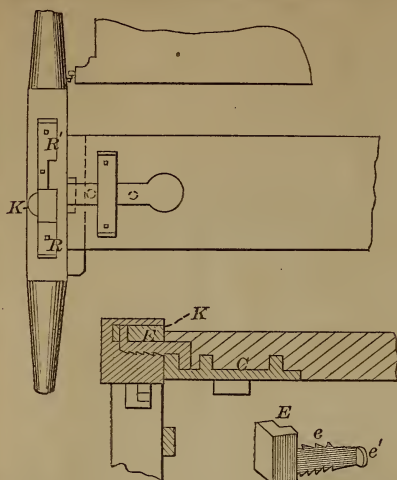
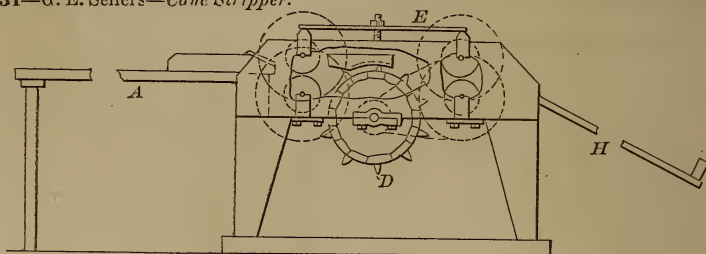
46025

E. D. & O. B. Reynolds,
Cultivator and Harrow.

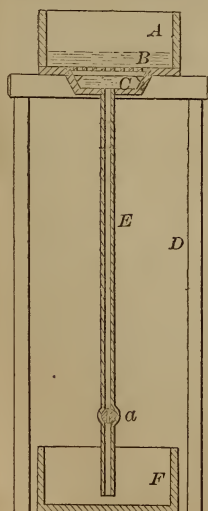


46028—F. G. Sanborn—*Button Hole Cutter.*

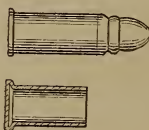
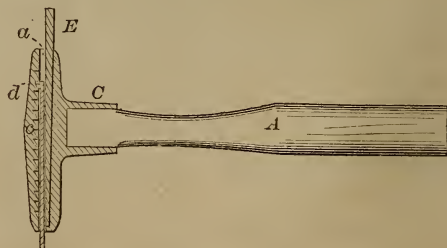
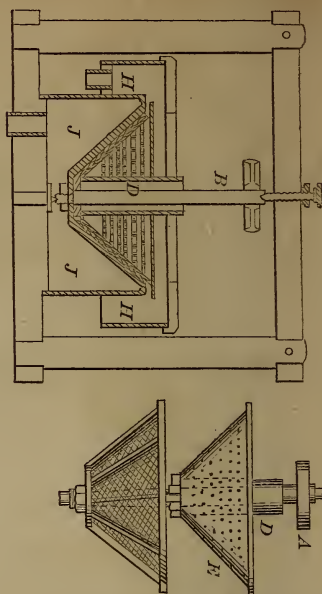


46029—J. C. Santee—*Bedstead Fastening.*46032—A. G. Shaver—*Eraser.*46031—G. E. Sellers—*Cane Stripper.*

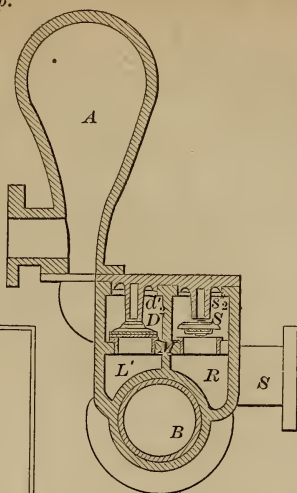
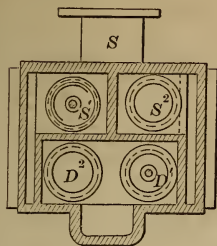
46033—L. Smith.



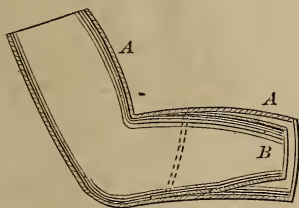
Apparatus for Extracting Oils.

46034—H. C. Spaulding—*Metallic Cartridge.*46035—D. C. Stone—*Mill Stone Pick.*46030—G. E. Sellers—*Paper Pulp Washer.*

46036—L. W. Turrell—Steam Pump.



46016—J. W. Moyer—Coat with Inner Sleeves.



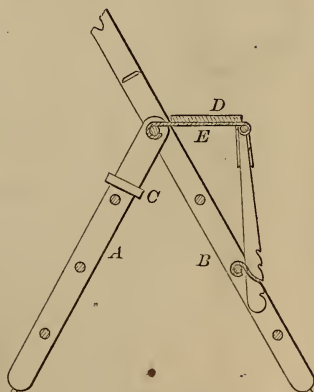
46037—J. S. Underhill—Vessel of War.



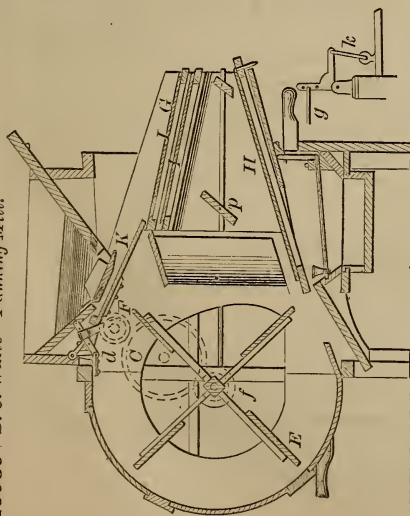
46040—W. Wilder—Shuttle for Loom.



46042—T. C. Wood—Extension Ladder.



46039—B. C. White—Fanning Mill.



46043—J. P. Woodbury—Street Steam Car.

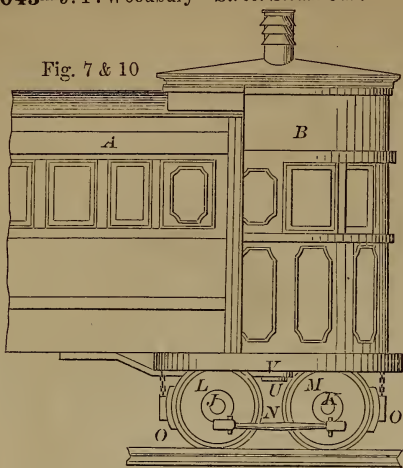


Fig. 8

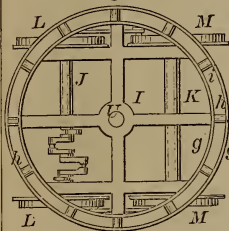
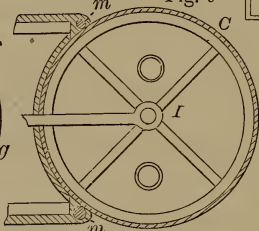
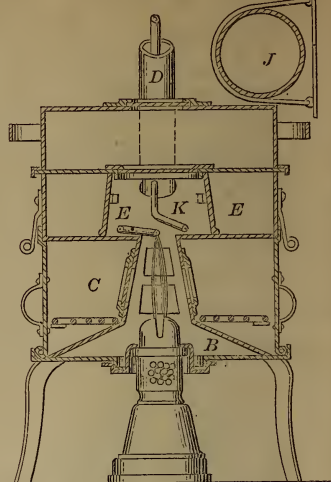
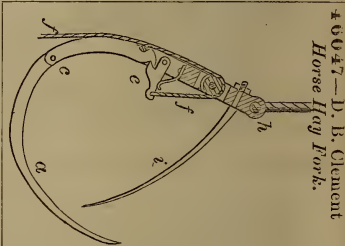


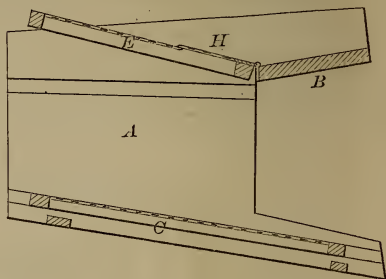
Fig. 9



46045—J. E. Ambrose—Coal Oil Lamp and Gas Stove.

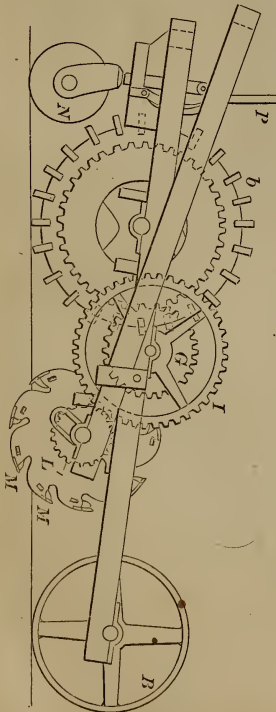
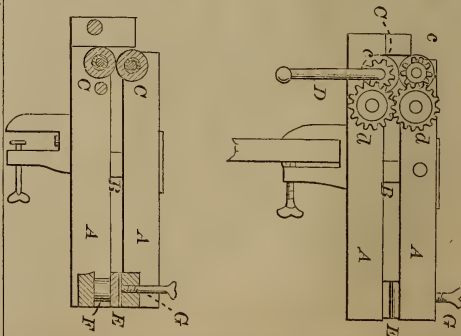
46047—D. B. Clement
Horse Hay Fork.

46044—E. Youngs—Grain Separator.

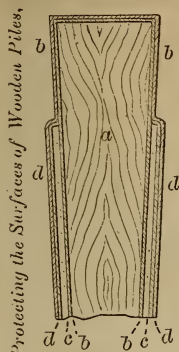


46048

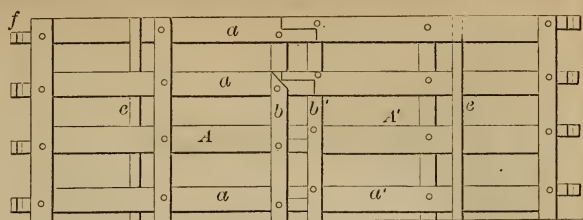
L. S. Fithian—Machine for Pulverizing the Soil.

46046—G. N. Bolles—Wringing
Machine.

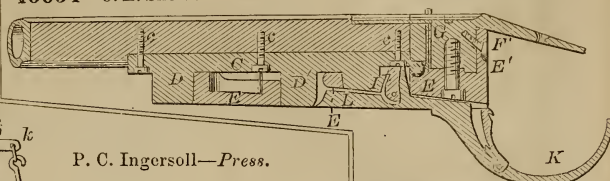
46049—L. J. Henry,



46052—P. W. Kniskern—Fence.

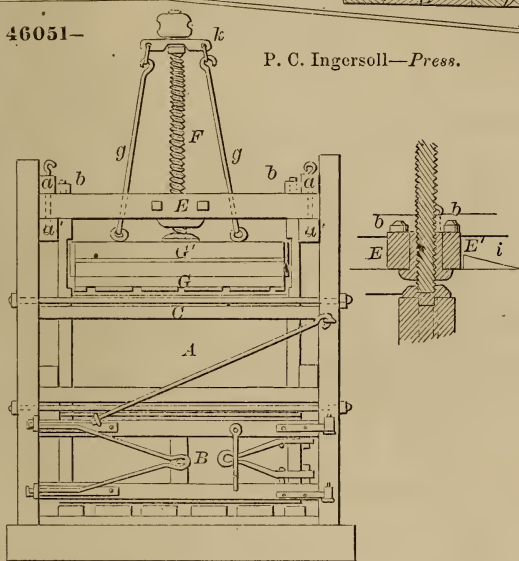


46054—C. E. Snider—Fire Arm.

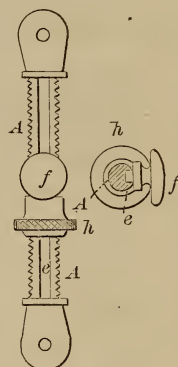


46051—

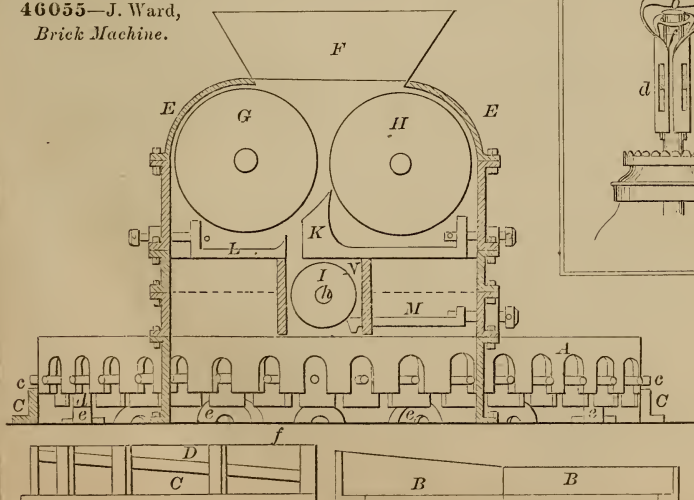
P. C. Ingersoll—Press.



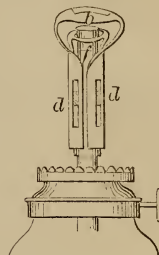
46050—E. T. Higham,
Window Shade Adjuster

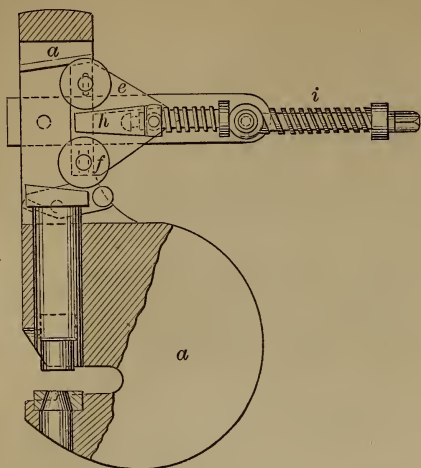
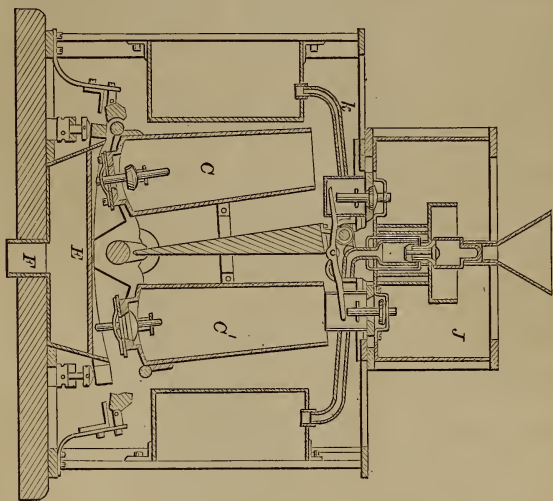
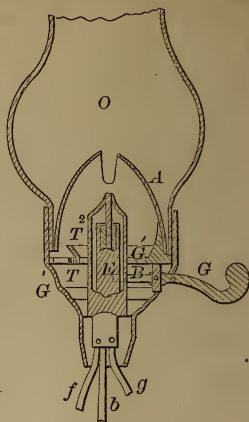
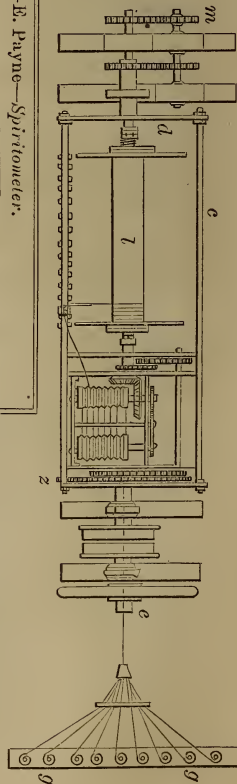
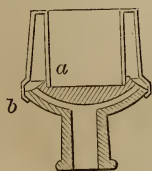
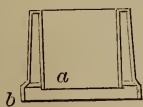
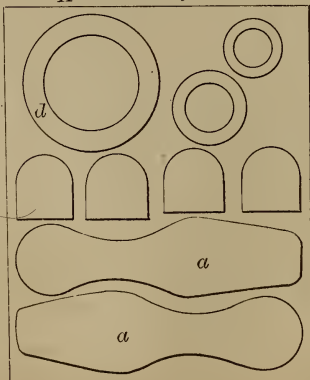


46055—J. Ward,
Brick Machine.

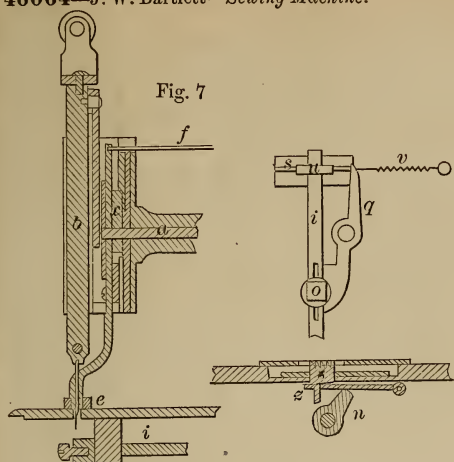


46053—E. Marsh—Lamp.



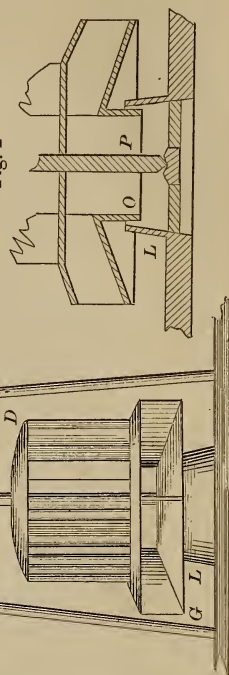
46056—E. R. Hollands—*Metal Punching Machine,*46059—G. A. Tremeschini—*Lamp.*46058—E. Payne—*Spiritometer.*46057—J. O. Mahien—*Rope Machine.*46063—E. S. Archer,
Argand Burner.46061—W. Adamson—*Manufacture
A of Articles of Leather.*

46064—J. W. Bartlett—Sewing Machine.

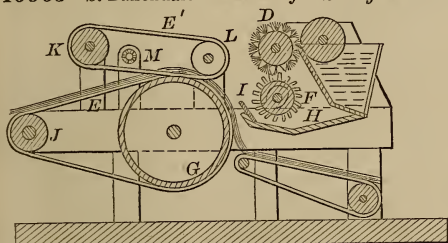


46067—A. P. Blake—Centrifugal Ventilator.

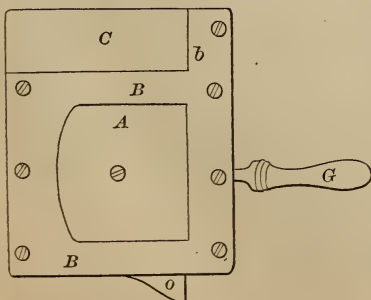
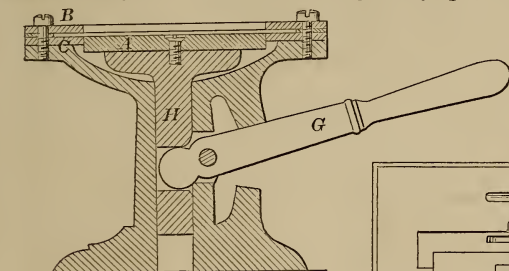
Fig. 2



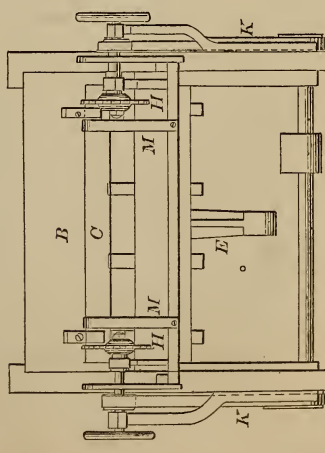
46065—S. Baxendale—Machine for Sizing Wadding.

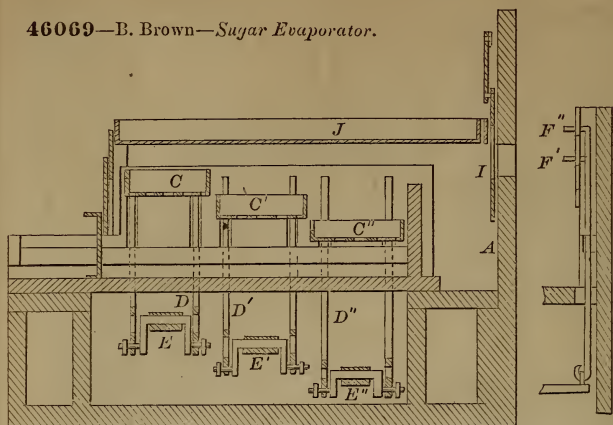
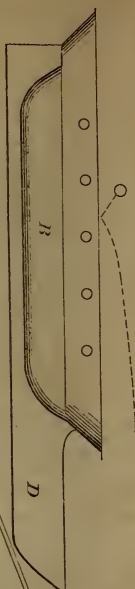


46066—T. Bergner—Instrument for Cutting Photographs.

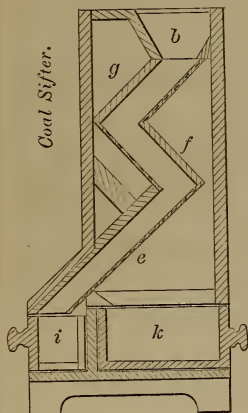
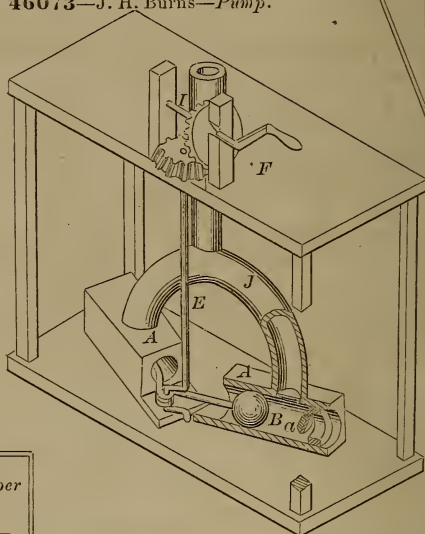
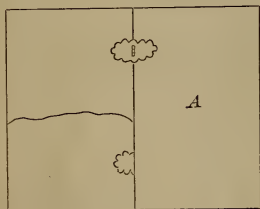
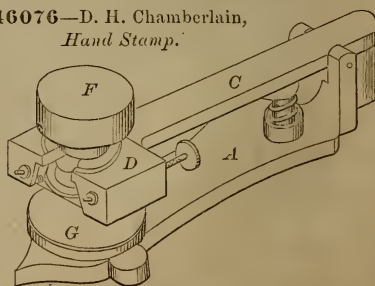
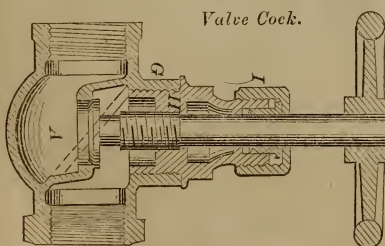


46068—L. W. Bowers—Stave Machine.



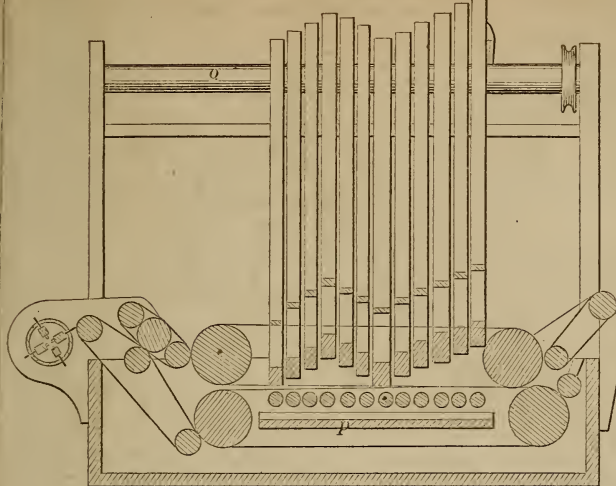
46069—B. Brown—*Sugar Evaporator.*46074—S. D. Carpenter—*Gum Boat.*

46070—W. E. Brown,

Coal Sifter.46073—J. H. Burns—*Pump.*46071—G. R. Bardou—*Paper Fastener.*46075—J. Carter—*Tool for Painting Pails.*46072—W. Burnett—*Newspaper File.*46076—D. H. Chamberlain,
Hand Stamp.*Valve Cock.*

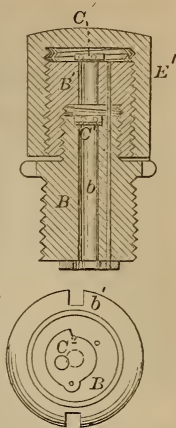
46077—W. Chesley,

46078—J. A. Clarke—Machine for Washing Wool.

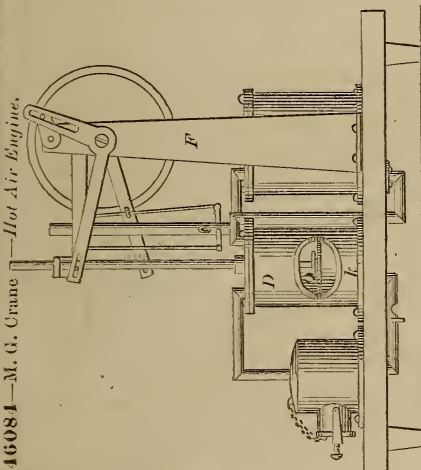


46080—J. F. Clew,

Valve for Submarine Ordnance.



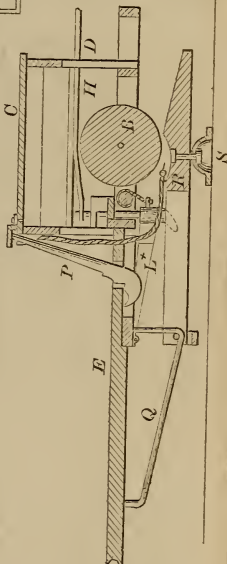
46081—M. G. Crane—Hot Air Engine.



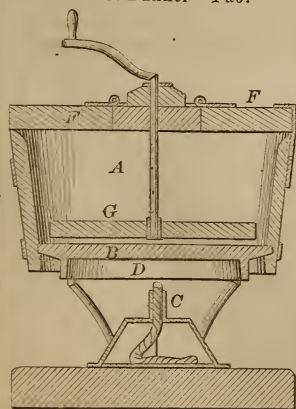
46082—G. F. J. Colburn—Comb.



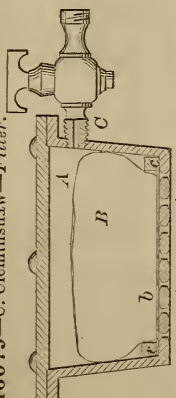
46083—P. Conrad—Roller and Corn Planter.



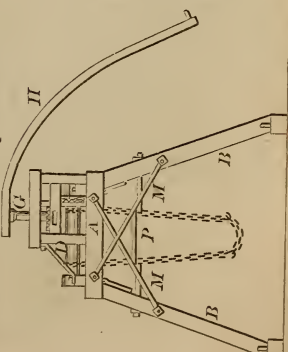
46085—J. Danner—Tub.

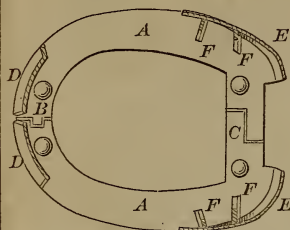
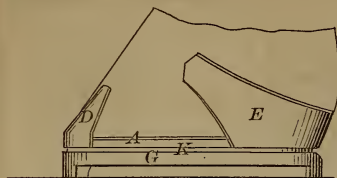
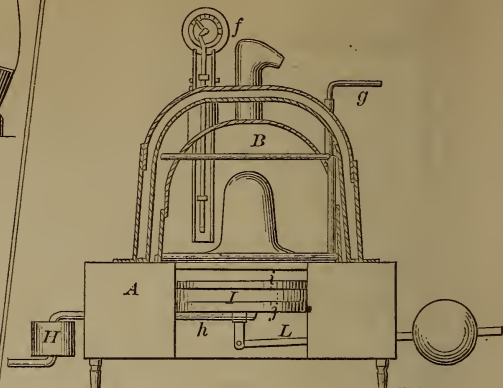
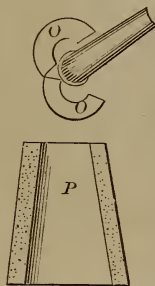
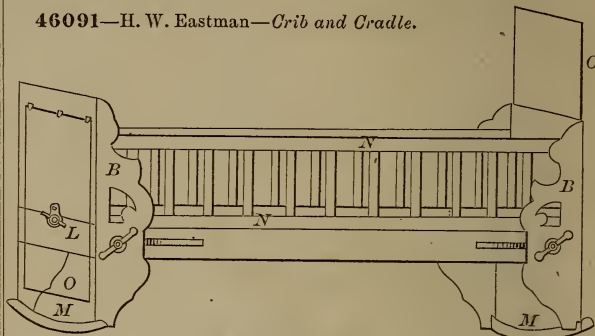
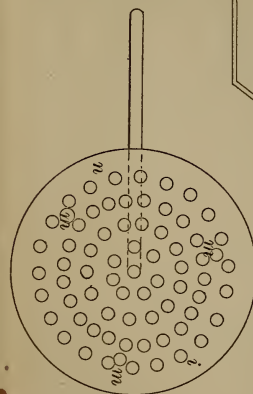
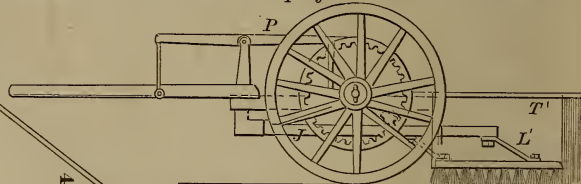
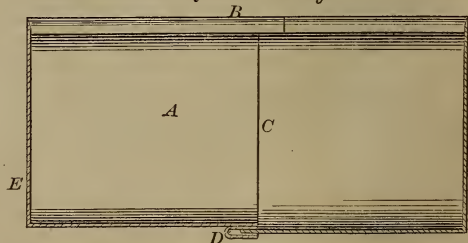
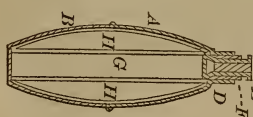


46079—C. Clemmshaw—Filter.

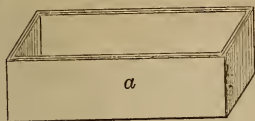


46086—S. Dear—Stump Extractor.

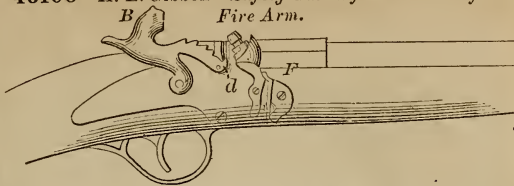


46087—W. Disbrow—*Horse Shoe.*46089—G. H. S. Duffus—*Retort for Petroleum.*46088—G. H. S. Duffus,
Retort for Petroleum.46091—H. W. Eastman—*Crib and Cradle.*46094—S. Emlen—*Street Sweeping Machine*46090—G. H. S. Duffus,
*Retort for Petroleum.*46093—F. J. Emery—*Eave Trough.*46096—J. A. Eshleman—*Neck Tie Holder.*46095—C. O. Faretot,
Canteen.

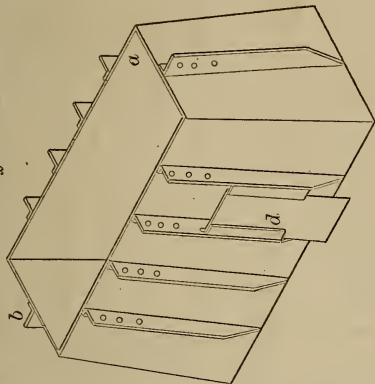
46097—F. W. Fliedner,
Manufacture of Boxes.



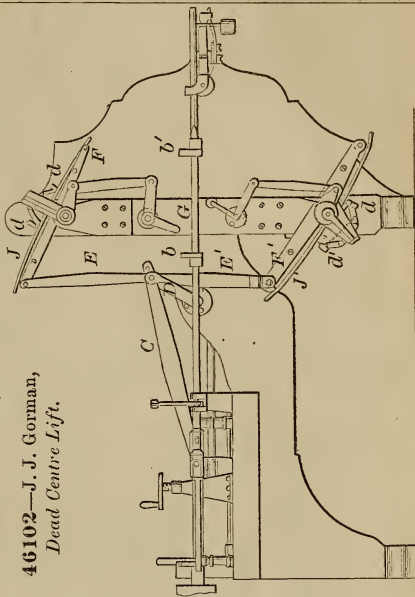
46100—H. E. Gibbon—*Safety Guard for Hammer of Fire Arm.*



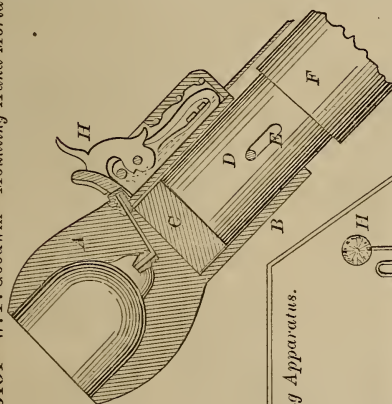
46098—A. Folsom—*Coffer Dam.*



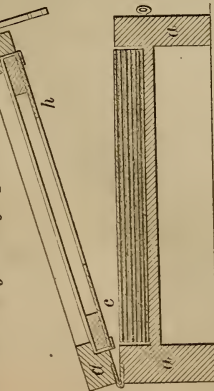
46102—J. J. Gorman,
Dead Centre Lift.



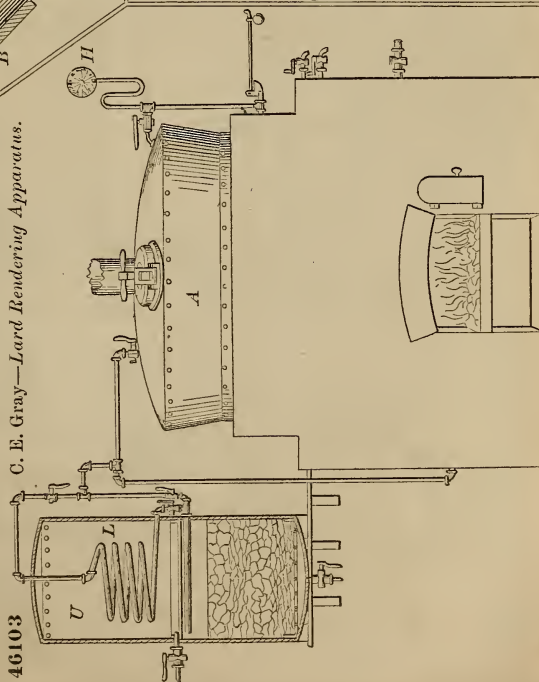
46101—W. F. Goodwin—*Mounting Hand Mortars.*



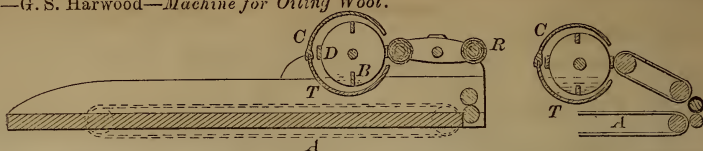
46099—L. A. Foulley—*Apparatus for Cutting Photographs.*



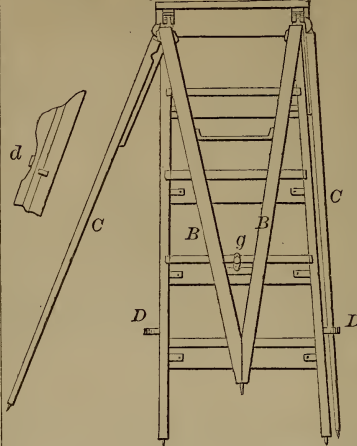
46103—C. E. Gray—*Lard Rendering Apparatus.*



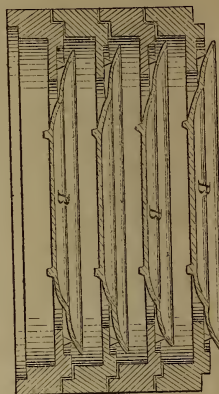
46104—G. S. Harwood—Machine for Oiling Wool.



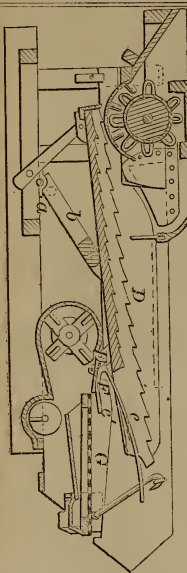
46105—C. Hays—Orchard Ladder.



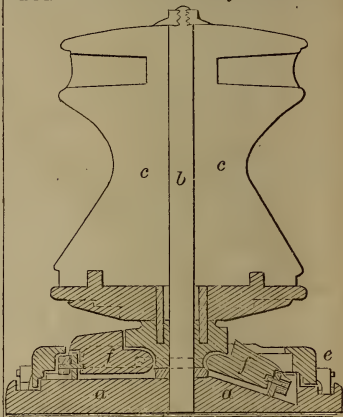
46109—B. Jackson—Protecting Pottery Ware.



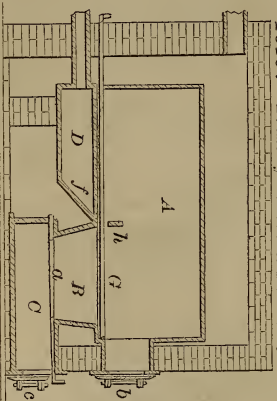
46108—O. Holmes—Threshing Machine.



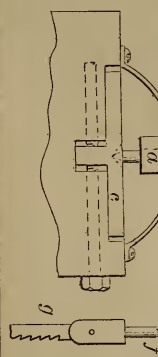
46110—Jackson & Eddy—Windlass.



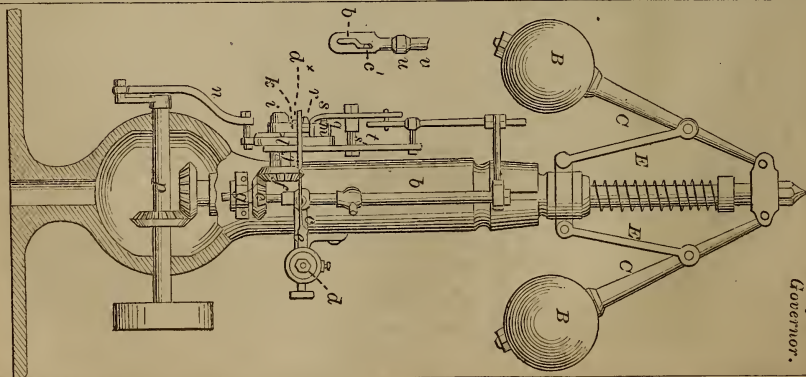
46107—B. Holly—Hot Air Furnace.



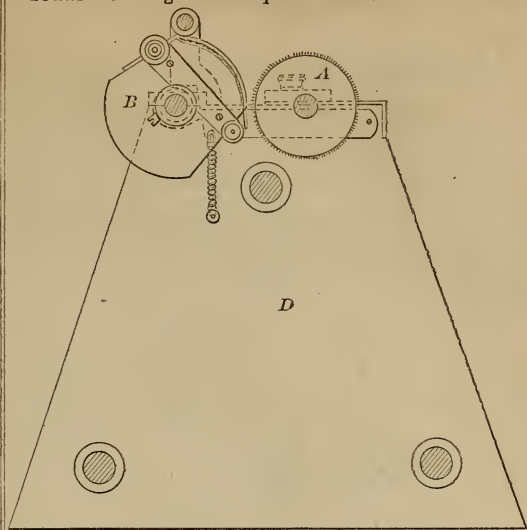
46106—A. A. Hoffman—Scroll Sawing Machine.



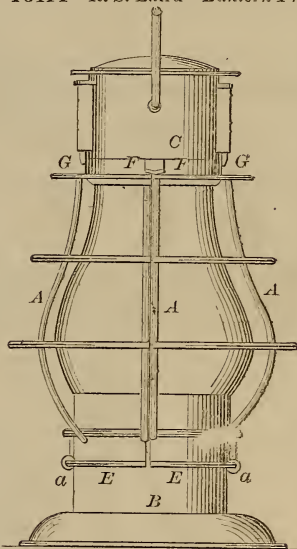
46111—Kelly & Lamb—Steam Engine Governor.



46115—C. Lang—*Lace Paper Machine.*

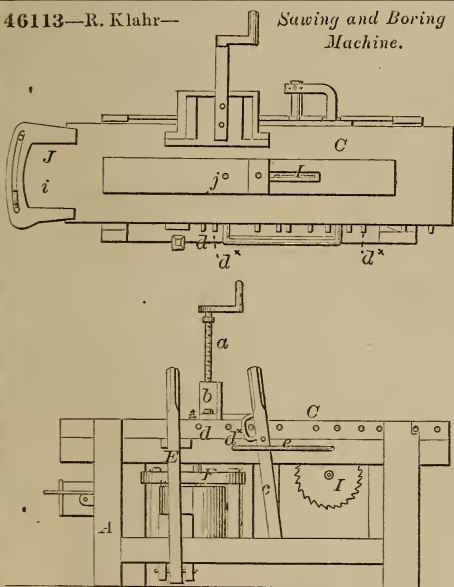
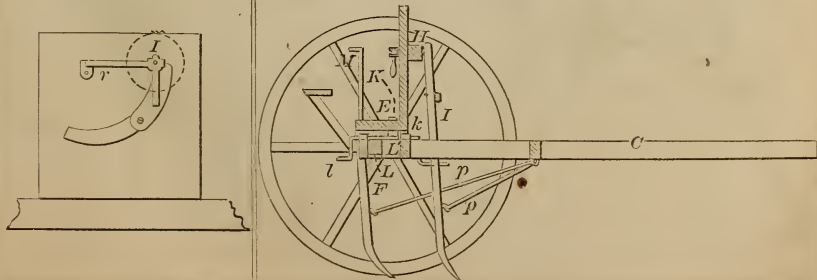


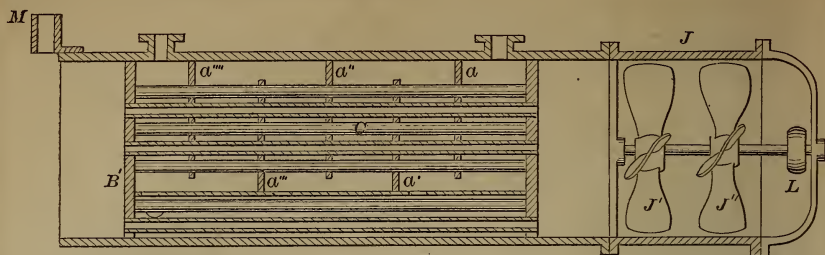
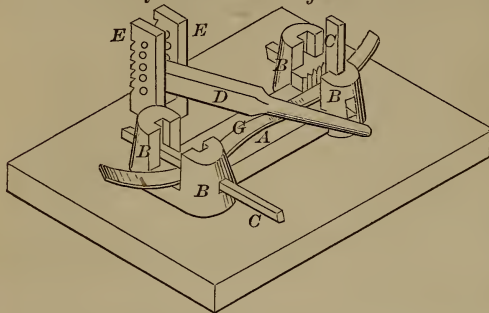
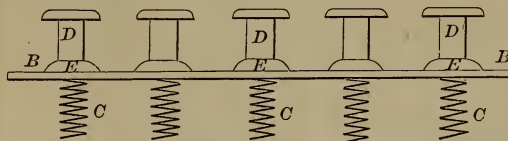
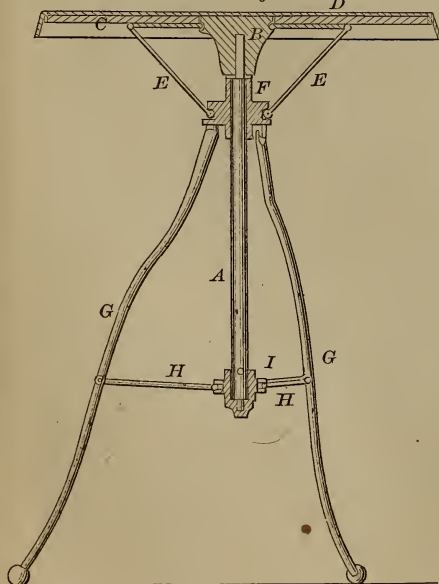
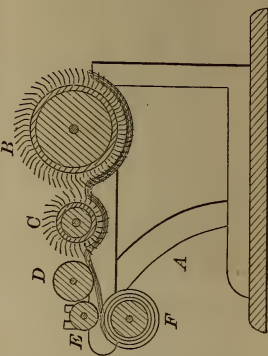
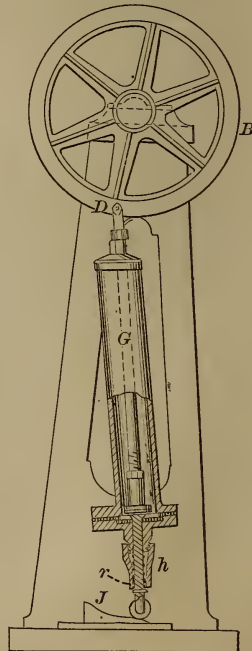
46114—R. S. Laird—*Lantern Frame.*



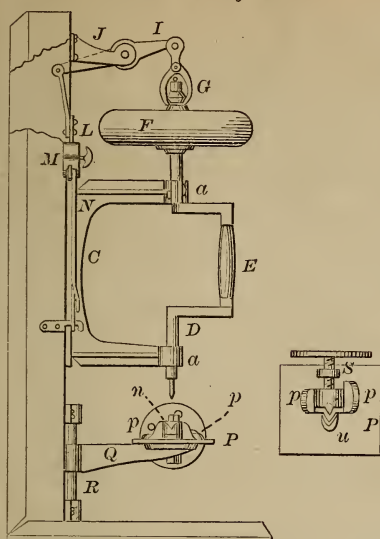
46113—R. Klahr—

*Sawing and Boring
Machine.*

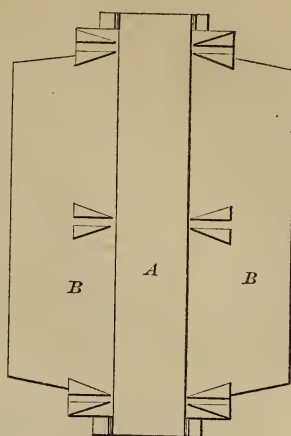
46116—C. Lidren—*Cultivator*.

46117—W. A. Lighthall—*Tubular Condenser.*46118—J. A. Lloyd—*Tire Shrinking Machine.*46119—G. E. Lord—*Spring Bed Bottom.*46121—F. Lüdke—*Folding Chair.*46120—Lord & Hutton—*Doffing Apparatus.*46122—A. S. Lyman,
Air Pump.

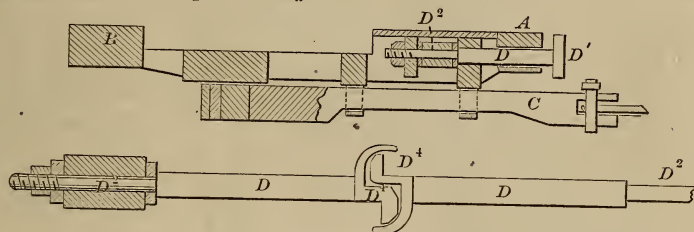
46123—W Lyon—*Drilling Machine.*



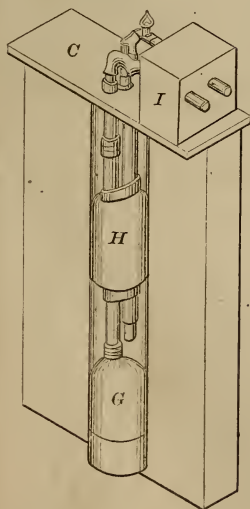
46127—J. A. Miller—*Furnace Grate Bar.*



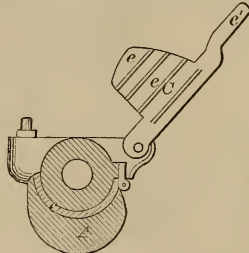
46126—E. Miller—*Car Coupler and Buffer.*



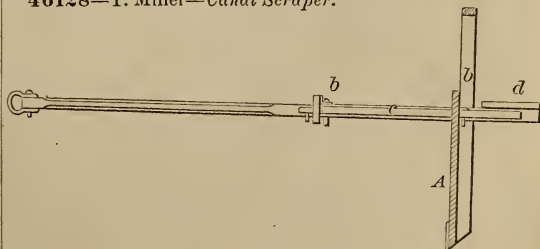
46124—J. C. Lyons—*Test for Oil Wells*



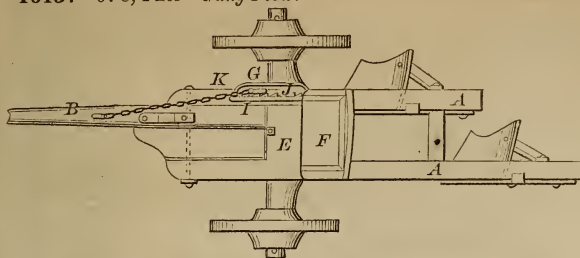
46125—I. M. Millbank—*Fire Arm.*



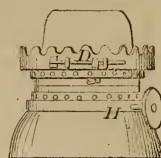
46128—T. Miller—*Canal Scraper.*



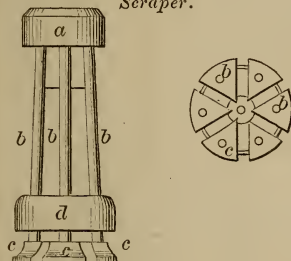
46137—J. C. Piel—*Gang Plow.*



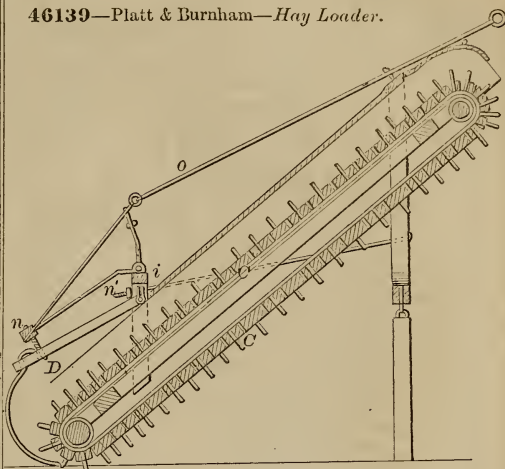
46138—A. H. Platt,
Lamp Burner.



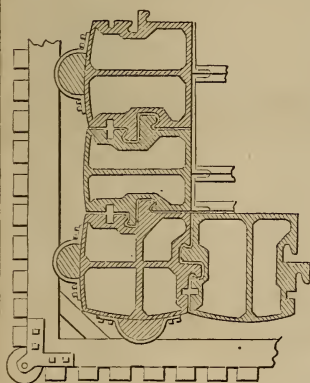
46140—E. L. Pratt—*Gun
Scraper.*



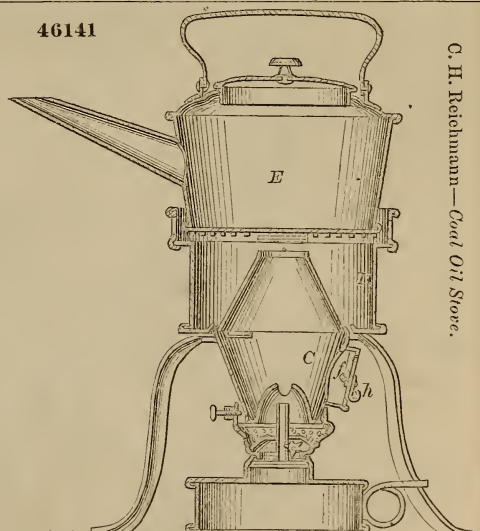
46139—Platt & Burnham—*Hay Loader.*



46144—S. J. Seely—*Pier and
Bulk Head.*

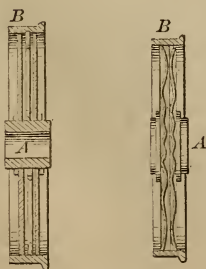


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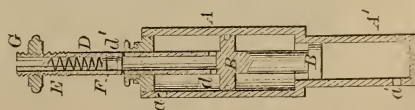


C. H. Reichmann—*Coal Oil Store.*

46145—S. J. Seely—*Car Wheel.*

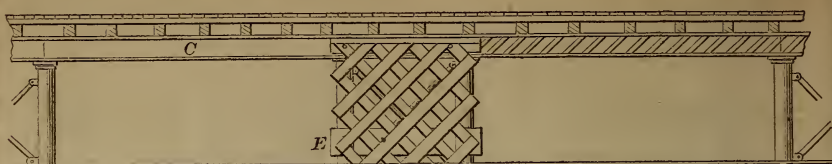


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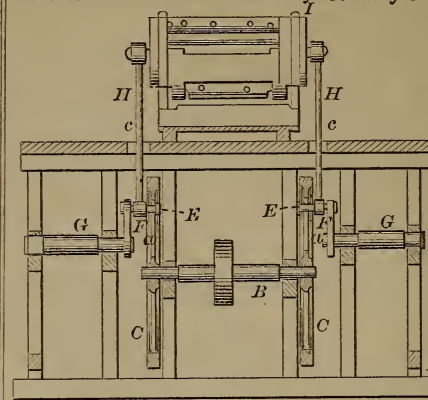


P. Rioxdon—*Safety Valve Regulator.*

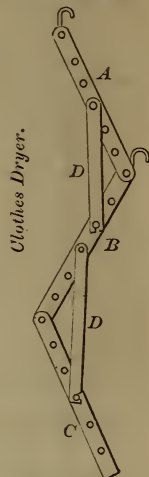
46146—S. J. Seely—Construction of Docks.

46147
S. J. Seely,
Rudder.

46149—H. M. Shaw—Machine for Cutting Staves.

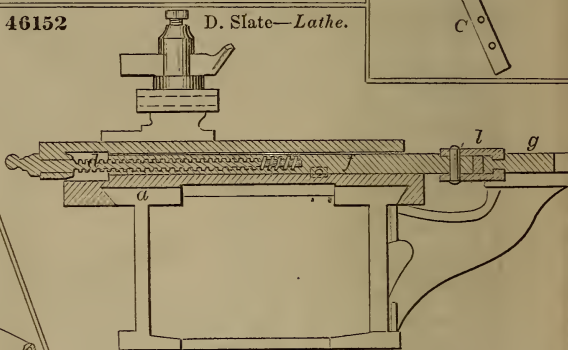
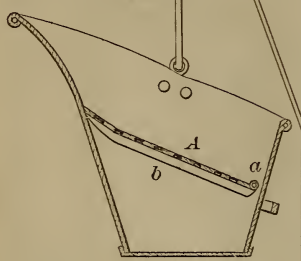
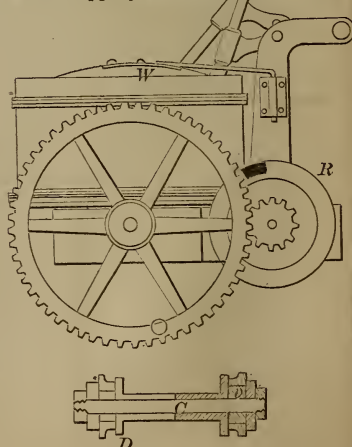
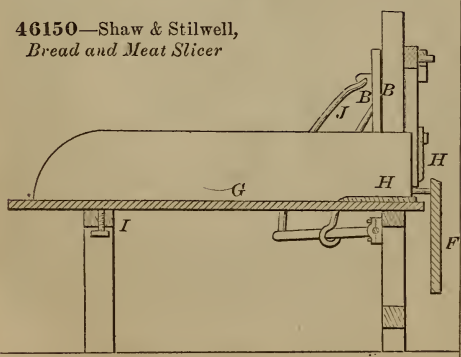


46151—E. Sims.



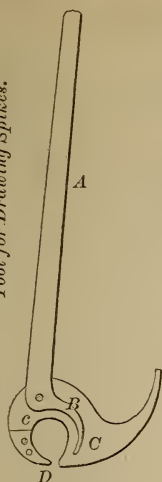
46152

D. Slate—Lathe.

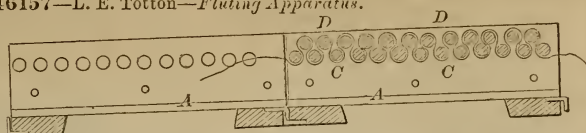
46148—S. B. Sexton—
Coal Scuttle.46153—Spaulding & Scott,
Meat Chopping Machine.46150—Shaw & Stilwell,
Bread and Meat Slicer

46154—G. Stone.

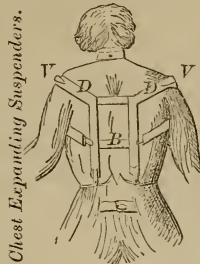
Tool for Drawing Spikes.



46157—L. E. Totton—*Fluting Apparatus.*



46161—G. W. Walker.

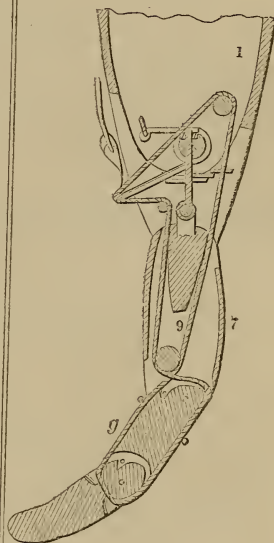
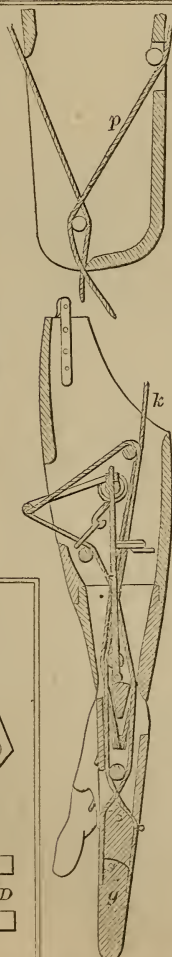


Chest Expanding Suspenders.

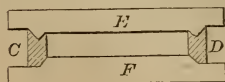
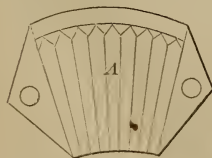
46158—T. Uren—*Artificial Limb.*



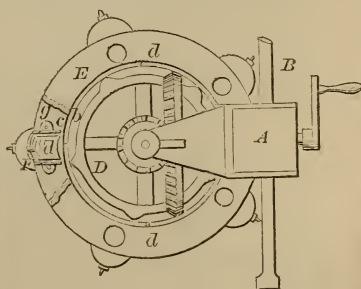
46159—T. Uren,
Artificial Limb.

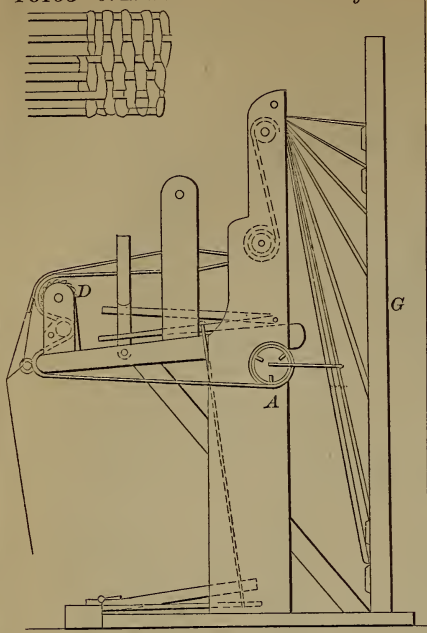
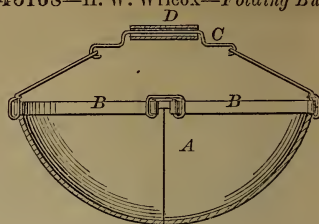
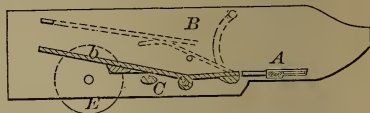
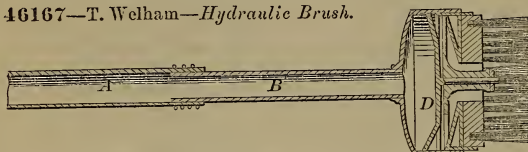
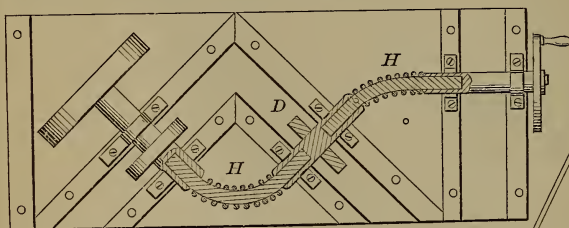
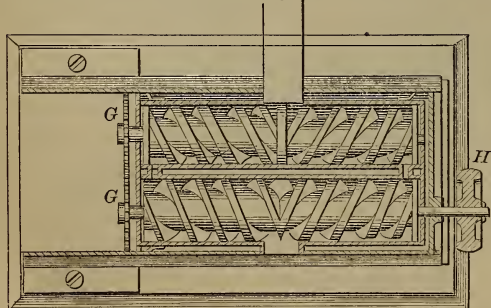
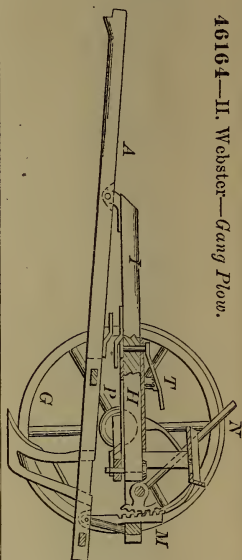


46162—J. Walton,
Corrugated Funnel Spout.

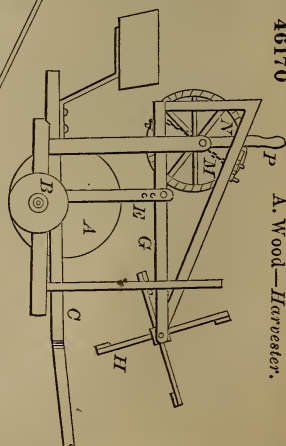


46155—P. Sweeney—*Corn Sheller.*

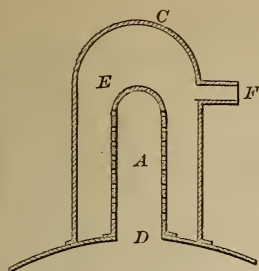


46163—J. L. Weaver—*Bonnet Binding.*46168—H. W. Wilcox—*Folding Bucket.*46169—D. Wolf—*Reaping Machine.*46167—T. Welham—*Hydraulic Brush.*46166—T. Welham—*Universal Shafting.*46165—T. Welham—*Steam Engine.*46164—L. Webster—*Gang Plow.*

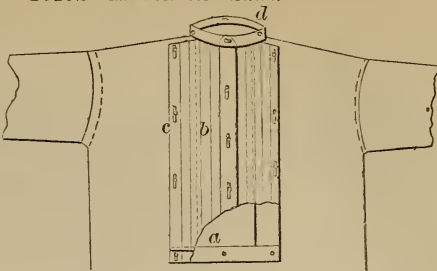
46170

A. Wood—*Harvester.*

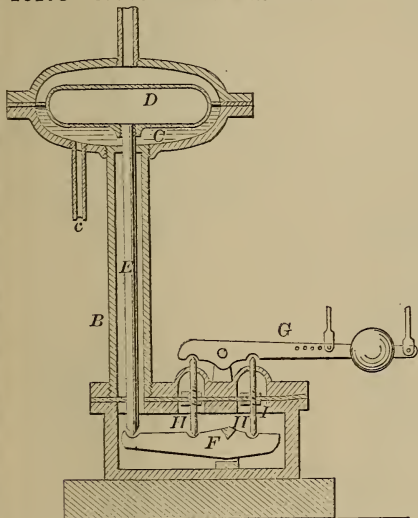
46171—E. D. Wood—*Steam Boiler.*



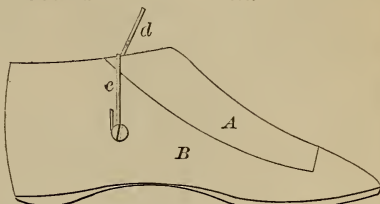
46172—A. Wormser—*Shirt.*



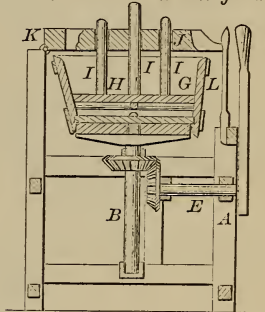
46173—J. Yates—*Low Water Detector.*



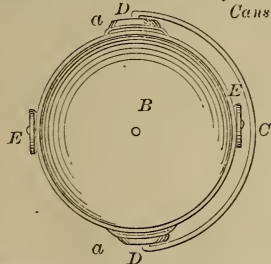
46174—S. K. Abbott—*Last.*



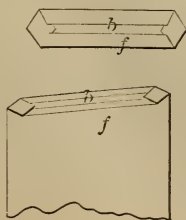
46175—G. N. Bolles—*Washing Machine.*



46176—C. F. Brand—*Ear for Paint Cans.*

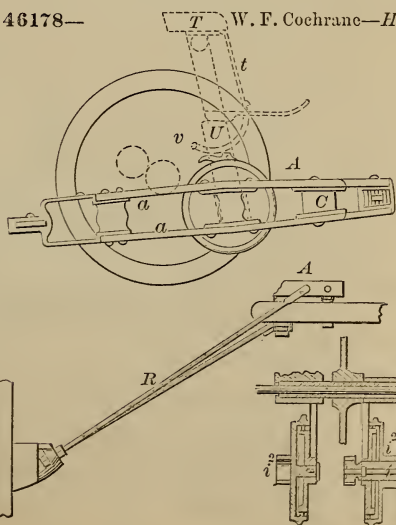


46177—W. H. Burridge—*Fruit Basket.*

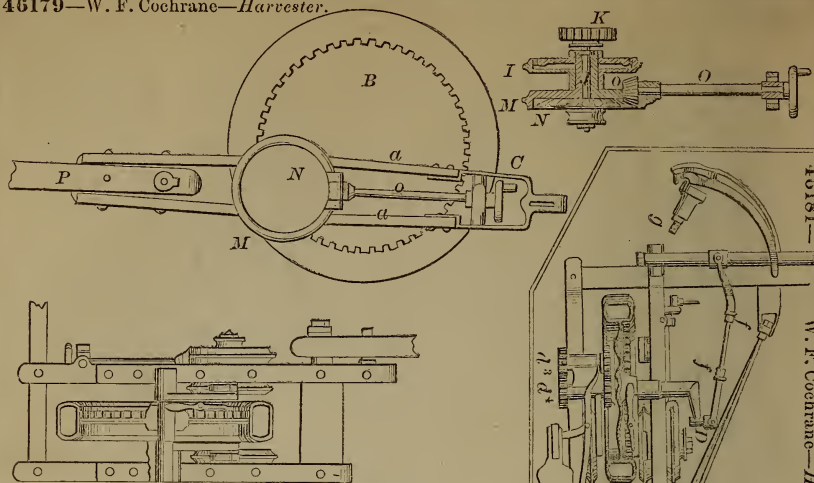


46178—

W. F. Cochrane—*Harvester.*



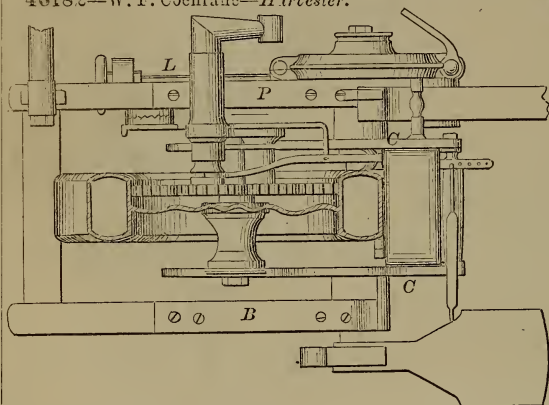
46179—W. F. Cochrane—Harvester.



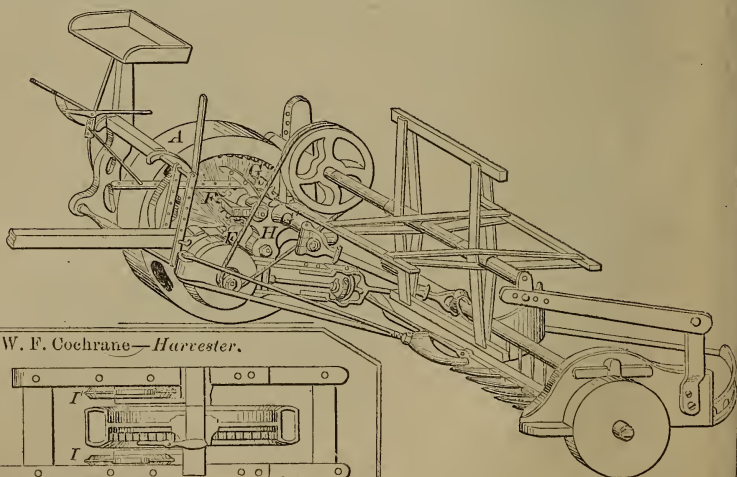
46181—

W. F. Cochrane—Harvester.

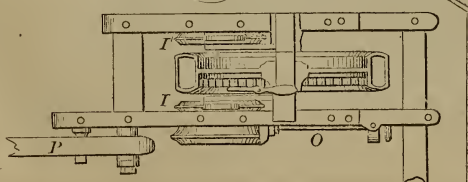
46182—W. F. Cochrane—Harvester.



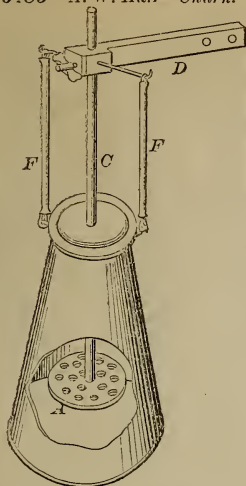
46183—W. F. Cochrane—Harvester.



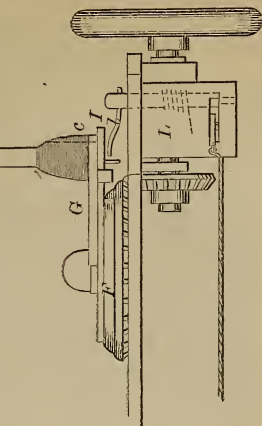
46180—W. F. Cochrane—Harvester.



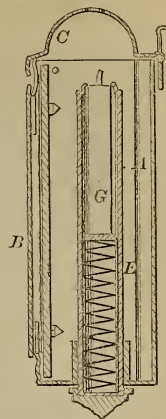
46185—A. W. Hall—*Churn.*



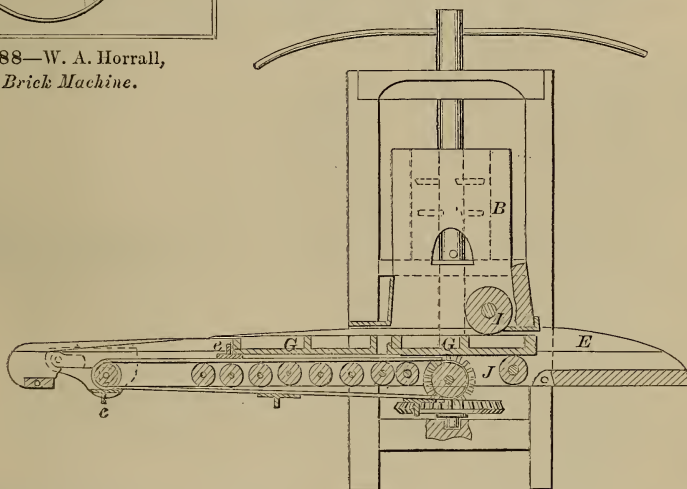
46186—P. W. Hart—*Kaitting Machine.*



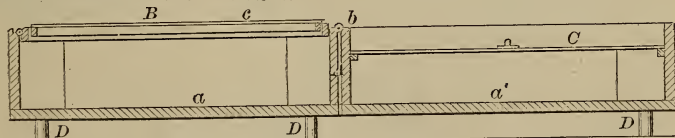
46184—C. Dears, *Lantern.*



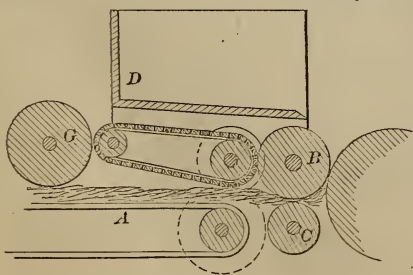
46188—W. A. Horrall, *Brick Machine.*



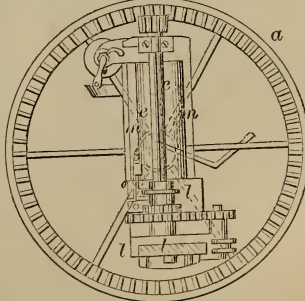
46187—S. B. Holden—*Valise and Seat.*



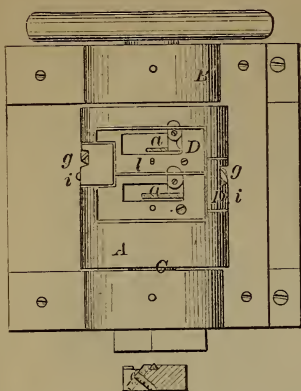
46189—J. W. Hussey—*Machine for Oiling Wool.*



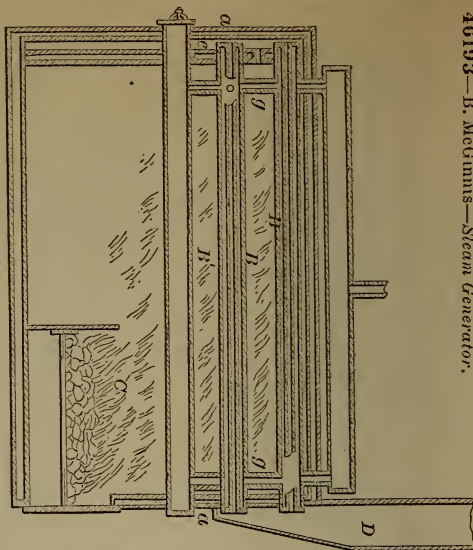
46190—S. Johnston—*Harvester.*



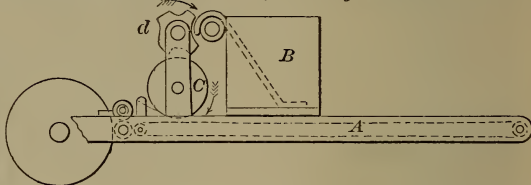
46191—H. K. Jones—*Machine for Indicating Carpenter's Squares.*



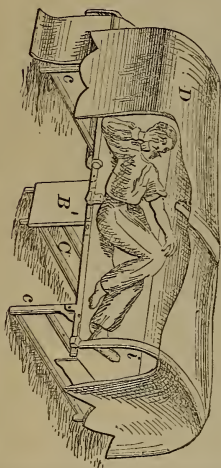
46193—B. McGinnis—*Steam Generator.*



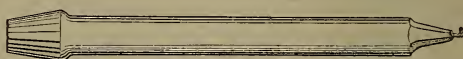
46194—J. Shinn—*Machine for Oiling Wool.*



46195—J. Weber—*Knapsack.*

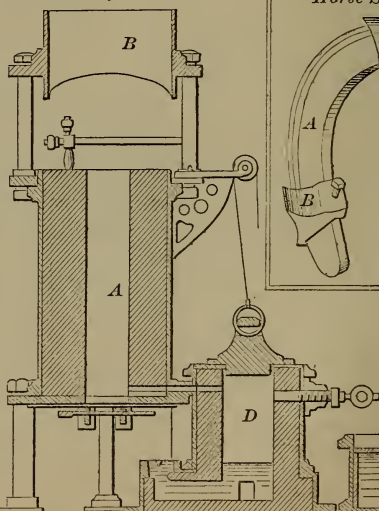


J. L. Field—*Candle.*

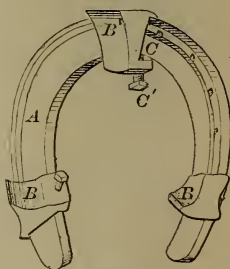


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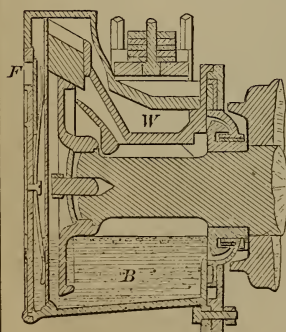
46198—J. Webster,
Treatment of Zinc Ore.



46192—S. Lloyd,
Horse Shoe.

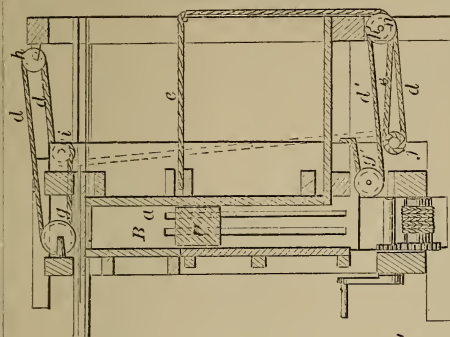
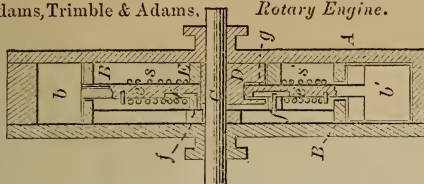


46196—J. F. A. & P. F. Aerts,
Lubricator.

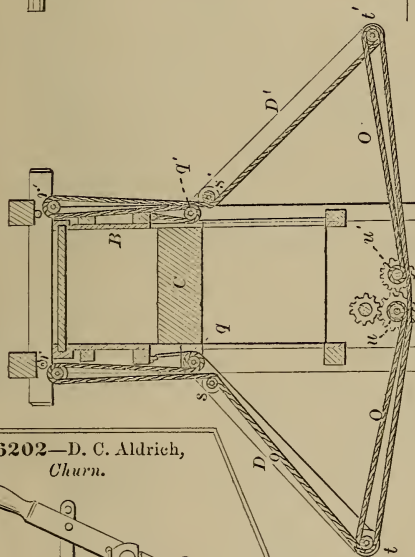


Adams, Trimble & Adams. *Rotary Engine.*

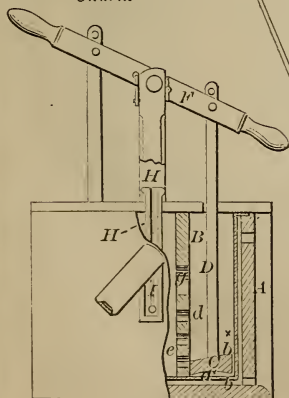
46201



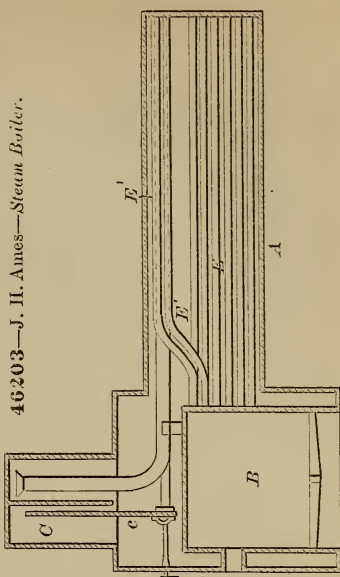
46205—S. J. Austin—Press.



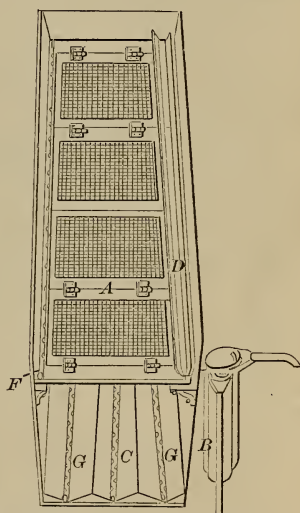
46202—D. C. Aldrich,
Churn.



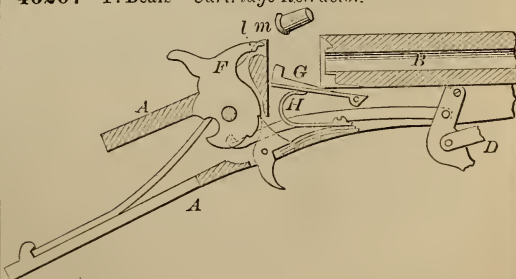
46203—J. H. Ames—Steam Boiler.



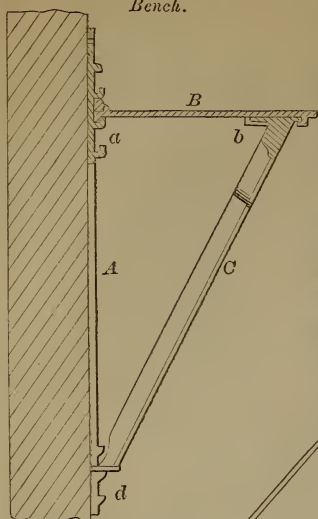
46204—P. Andrew—Separating Lard



46207—F. Beals—Cartridge Retractor.



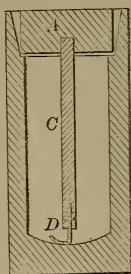
16209—C. L. Bishop—Moulders
Bench.



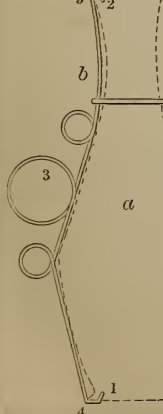
J. M. Brown,
Tobacco Stopper.



46214—C. W. Cahoon,
Oil Bottle.

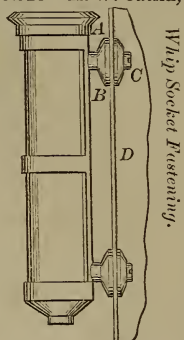


46212—

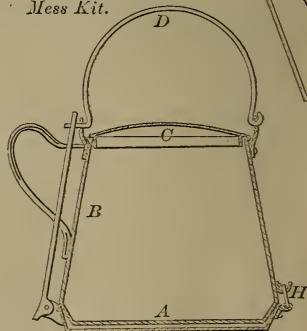


M. W. Brown—Handle for Lamp Chimneys.

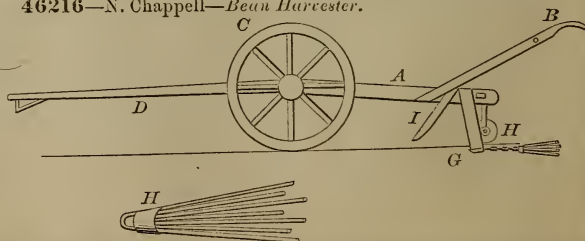
46215—H. W. Catlin,



46210—E. Blakeslee —
Mess Kit.



46216—N. Chappell—Bean Harvester.



46213—B. J. Burnett—Crane.

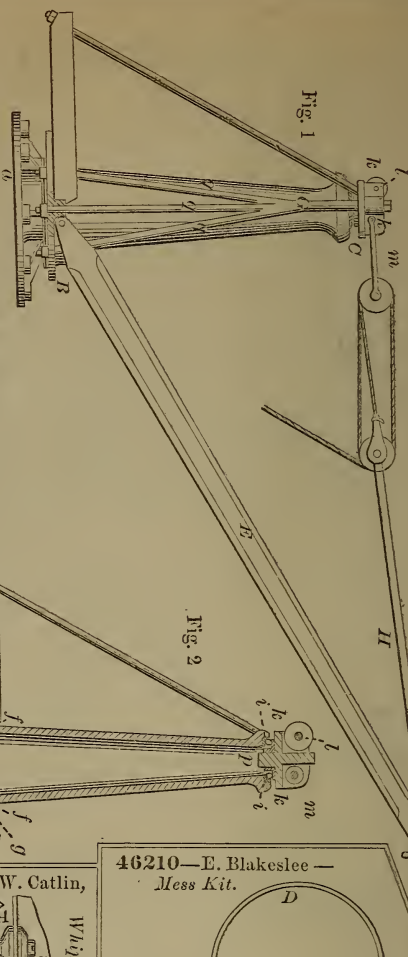
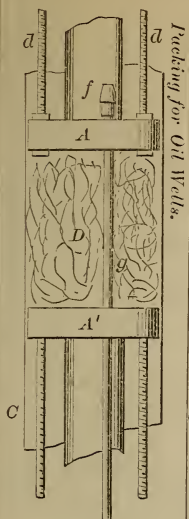


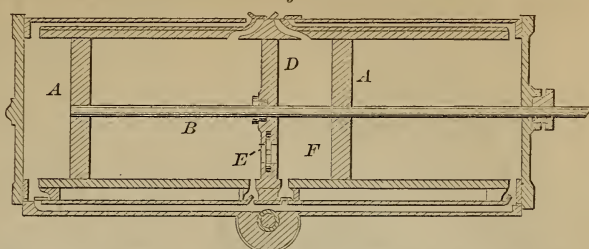
Fig. 1

Fig. 2

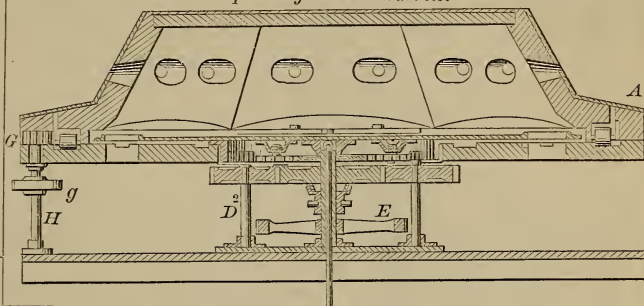
46217—J. R. Cross,



46219—J. N. Dennisson—Fire Engine.

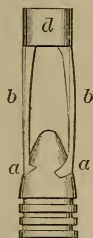


46222—J. B. Eads—Operating Guns in Turrets.

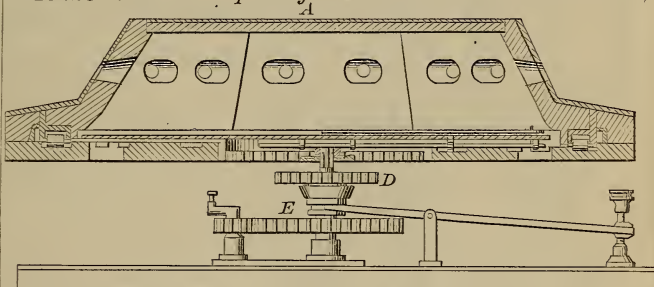


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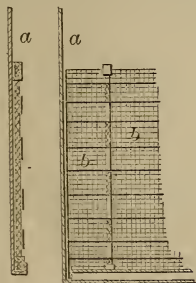
A. De Witzleben
Ball Screw.



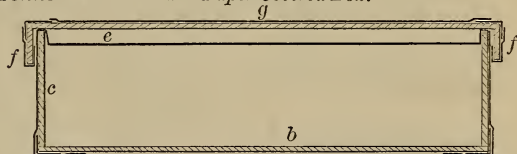
46223—J. B. Eads—Operating Gun Turrets.



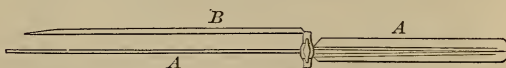
46218—T. D. Day,
Dress Protector.



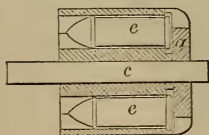
46221—M. P. Dorsch—Paper Covered Box.



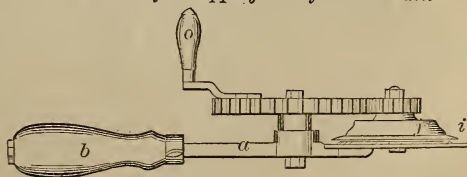
46224—J. E. Dow—Bread and Meat Slicer.



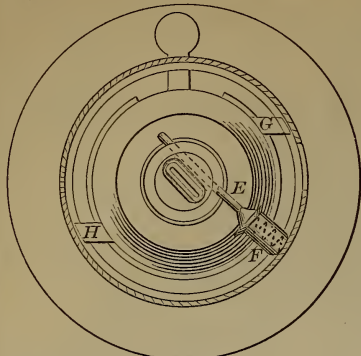
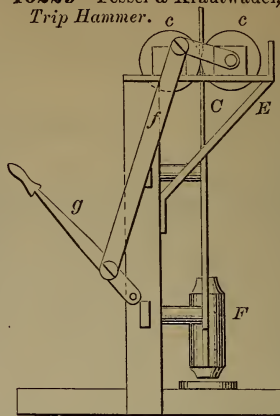
46225—W. H. Elliot,
Revolving Fire Arm.



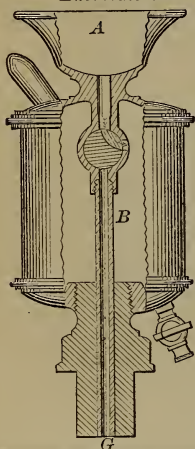
46226—C. W. Emery—Clipping Hair from Animals.



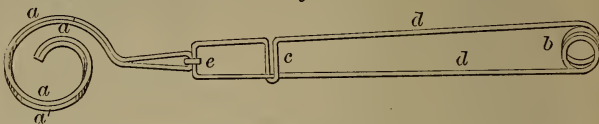
46227—C. Engelskirken—Lantern.

46229—Fessel & Krautwadel,
Trip Hammer.

46234—T. Hall—Volute Shoe Sole.

46231—T. W. Goodwin
Lubricator.

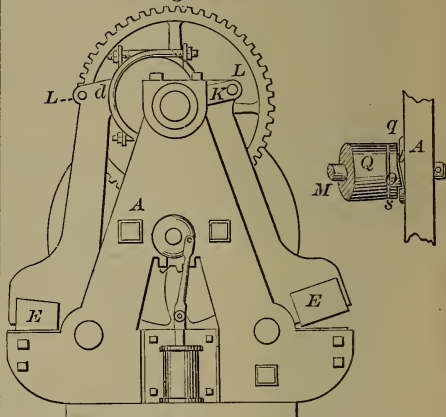
46235—T. G. Harold—Toasting Fork.



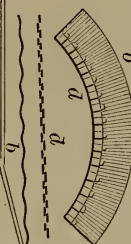
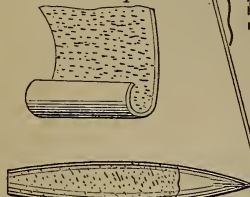
46236—T. S. Hudson—Lamp Hanger.



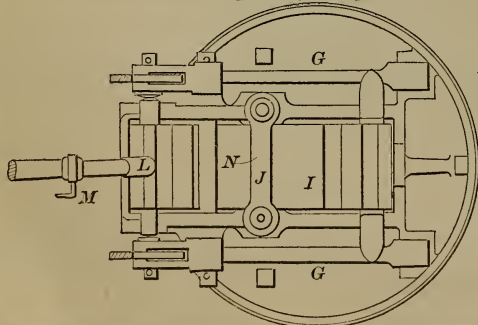
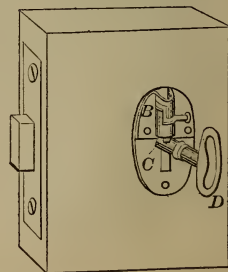
46237—J. Hornig—Metal Shears.



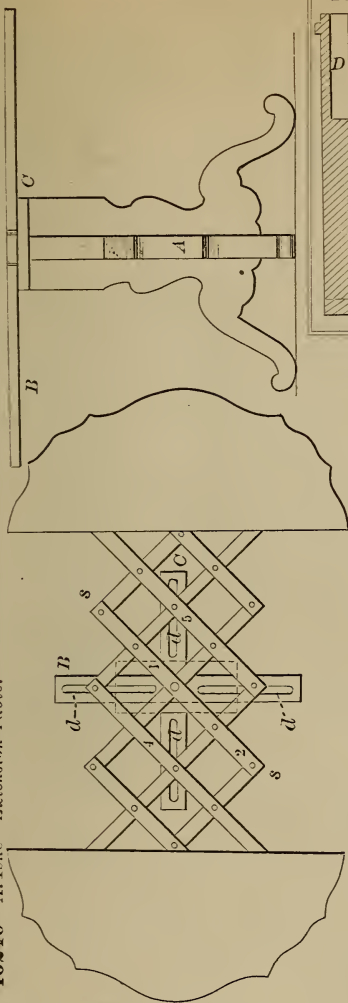
46232—S. S. Gray—Ladies Paper Collar.

46233—H. J. Hale,
Tobacco Paper.

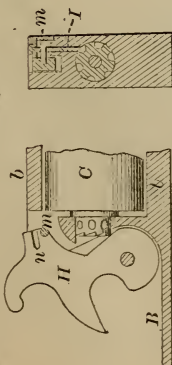
46238—W. S. Hudson—Operating Safety Valves.

46239—H. Hungerford—Key
Fastener.

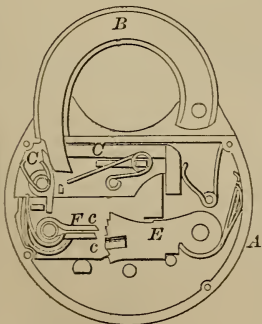
46240—A. Iske—Extension Table.



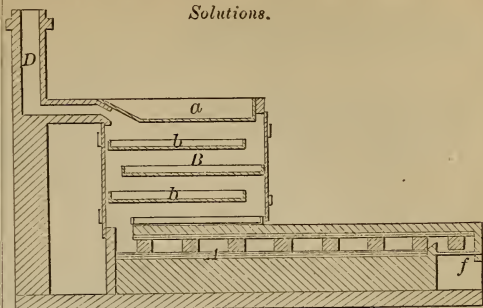
46243—B. W. Joslyn—*Revolving Fire Arm,*



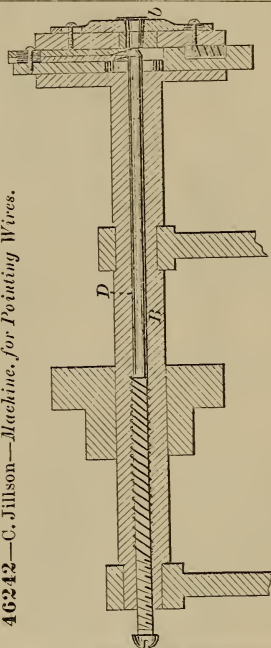
46241—H. Jackson—*Lock*.



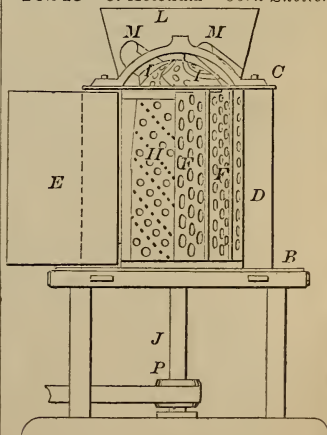
46244—Keen & Burgess—*Evaporating Alkaline Solutions.*

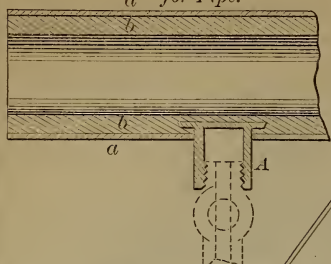


46242—C. Jillson—Machine, for Pointing Wires.

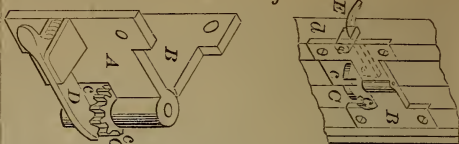


46245—C. Ketchum—*Corn Sheller.*

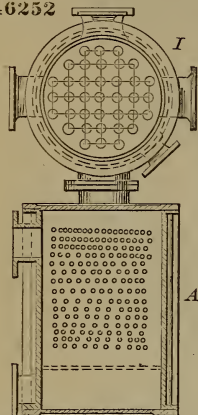


46246—H. Knight—Tapping Branch
a for Pipe.

46251—R. Lee—Shutter Hinge.

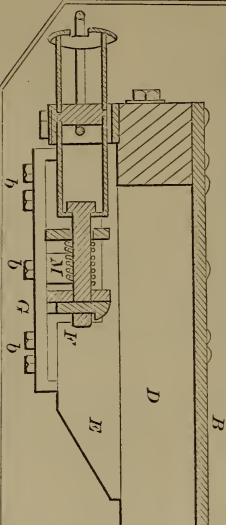


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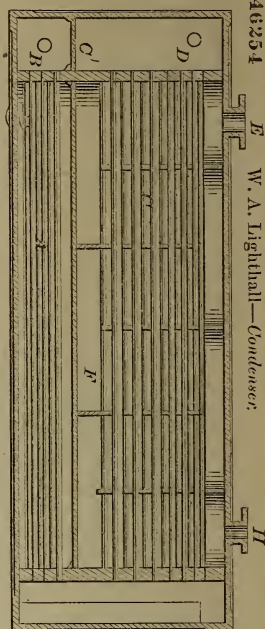


W. A. Lighthall—Feed Water Heater.

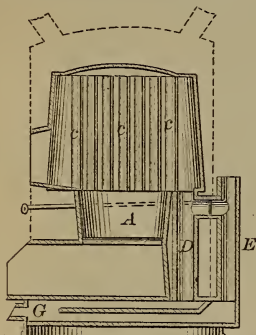
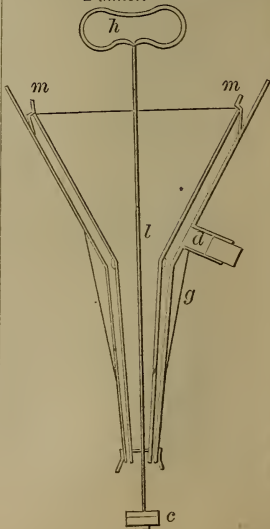
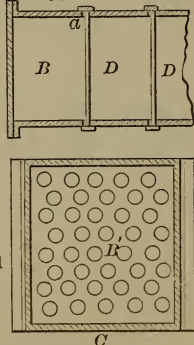
46248—J. P. Laird—Curt Bumper Attachment.



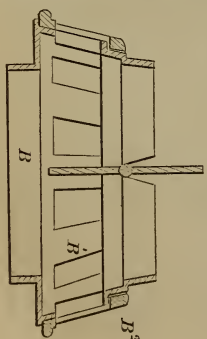
46254—W. A. Lighthall—Condenser.



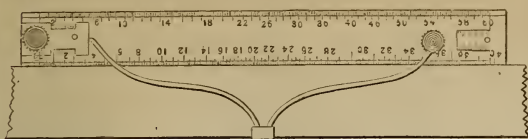
46250—J. A. Lawson—Heater.

46255—C. L. Lochman,
Funnel.46253—W. A. Lighthall—
Condenser Case.

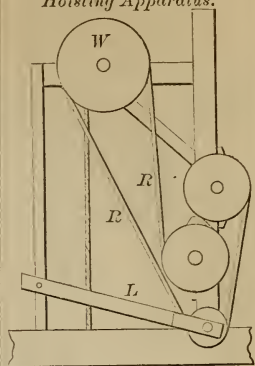
46249—J. A. Lawson—Dumper.



46256—J. Lyman—Drafting Scales.



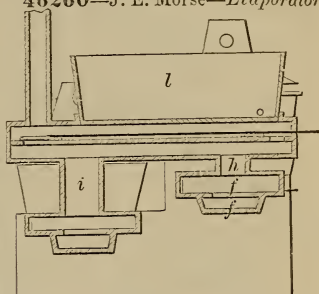
46257—W. K. Marvin, Hoisting Apparatus.



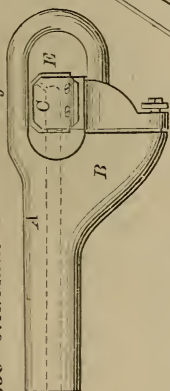
46258 P. J. Marqua—Hobby Horse.



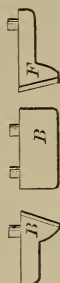
46260—J. E. Morse—Evaporator.



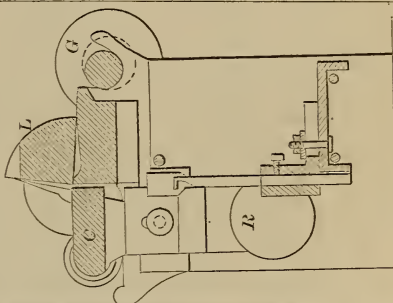
46259—J. A. Miller—Breech Loading Ordnance.



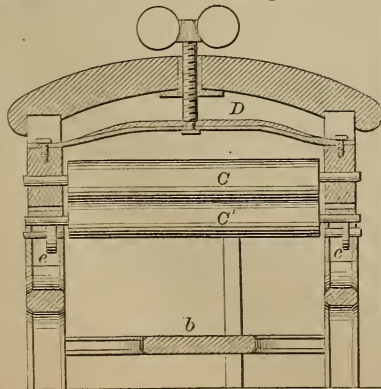
46262—J. L. Pike—Horse Shoe Calk.



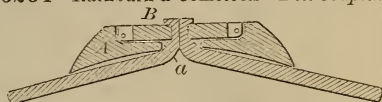
46261—S. Pennoek—Bending Sheet Metal.



46263—W. Radbourne—Mangle.



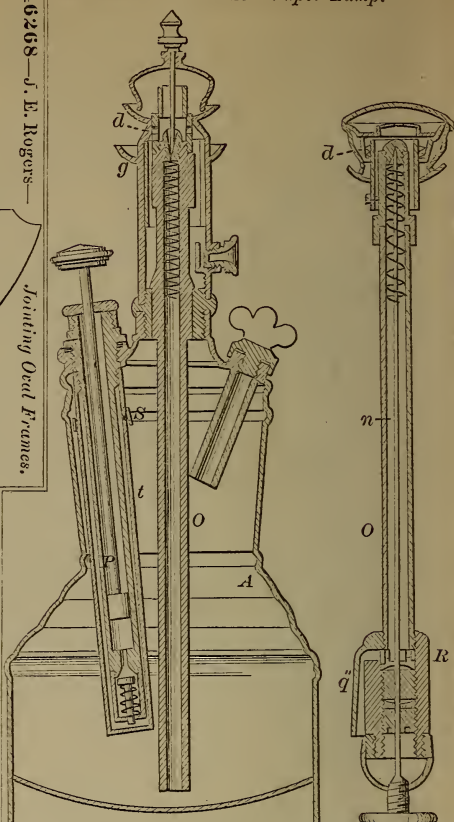
46264—Rathburn & Comstock—Belt Coupling.



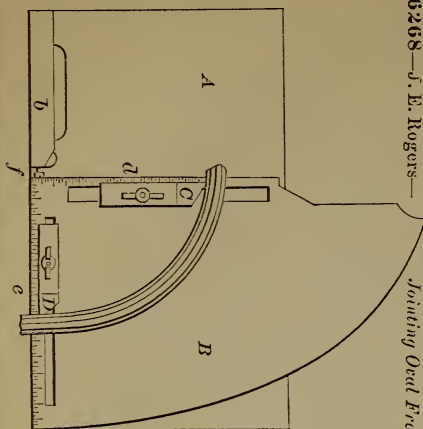
46265—O. Reeyes—Washing Machine.



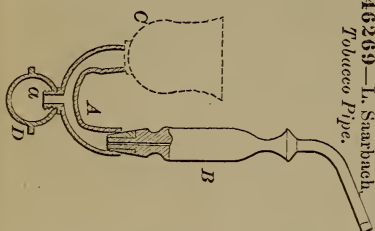
46266—J. J. Riddle—Vapor Lamp.



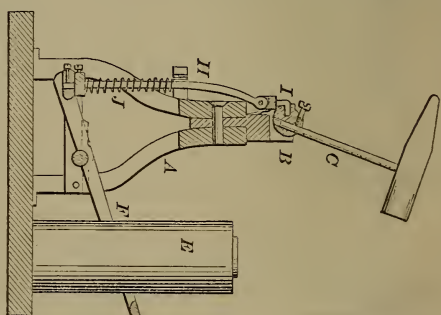
46268—J. E. Rogers—Joining Owl Frames.



46269—L. Saarbach—Tobacco Pipe.



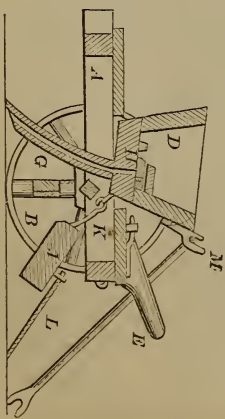
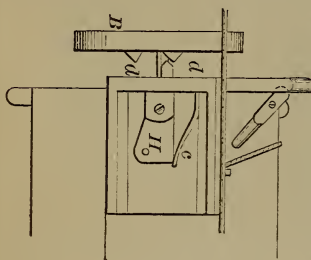
46267—T. J. Root—Trip Hammer.



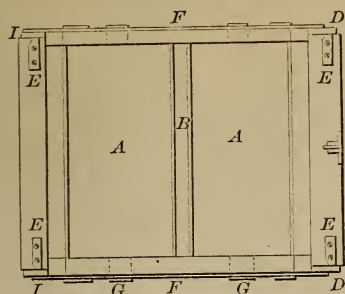
46270—L. E. Sallee—Doll's Head.



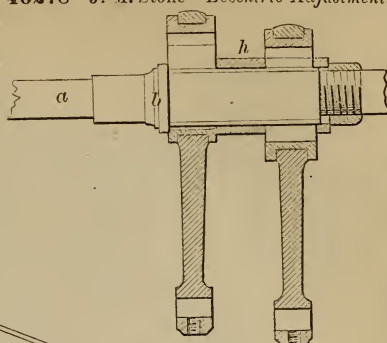
46271—W. Saxton—Seeding Machine.



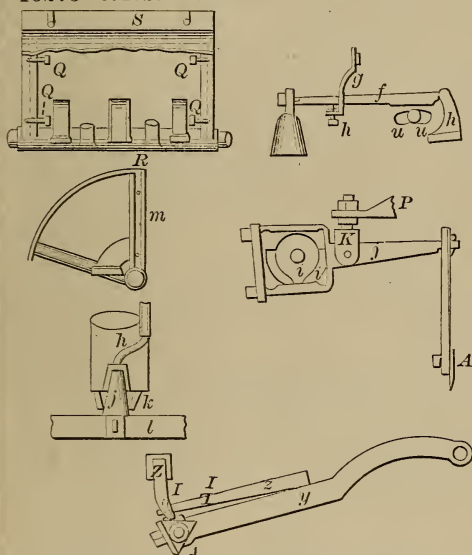
46272—J. F. Schuffenecker—Brick Mould.



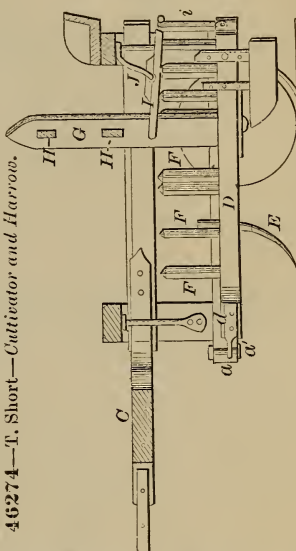
46278—J. M. Stone—Eccentric Adjustment.



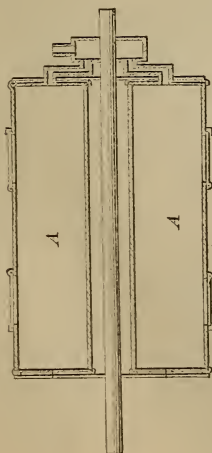
46273—J. F. Schuffenecker—Brick Machine



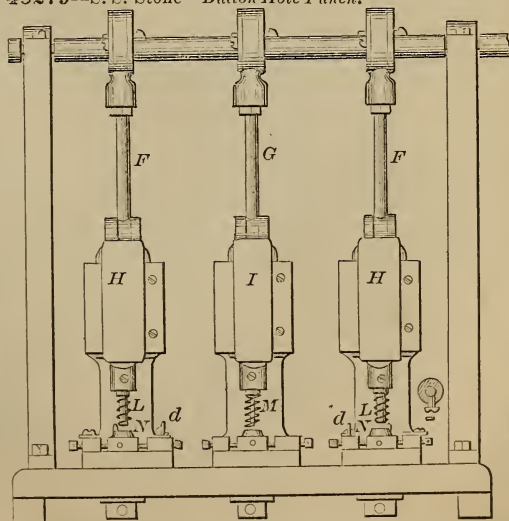
46274—T. Short—Cutting and Harrow.



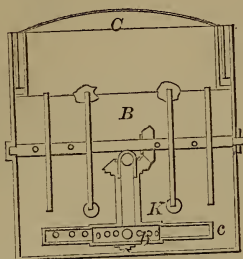
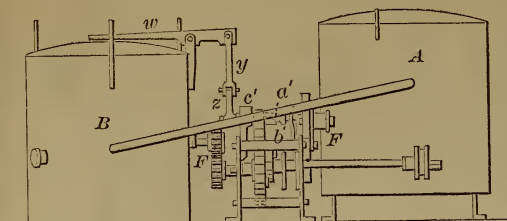
46275—Bates & Smith—Drying and Glazing Gunpowder.



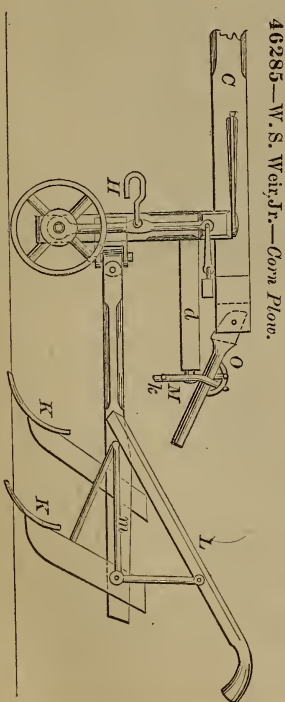
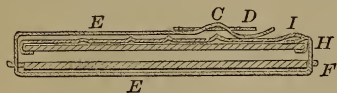
46279—S. S. Stone—Button Hole Punch.



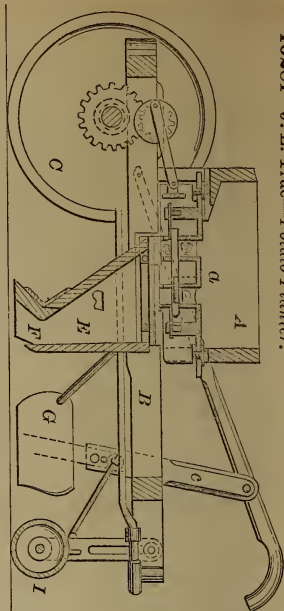
46280—J. B. Terry—Apparatus for Carburetting Air.



46282—C. T. Wakeley—Bill Holder.

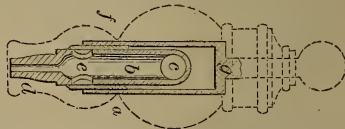


46285—W. S. Weir, Jr.—Corn Planer.



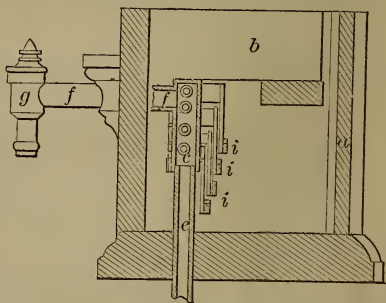
46281—J. L. True—Potato Planter.

Weber & Greene—Draught Tube for Soda Water.

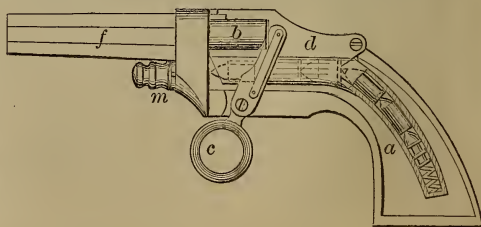


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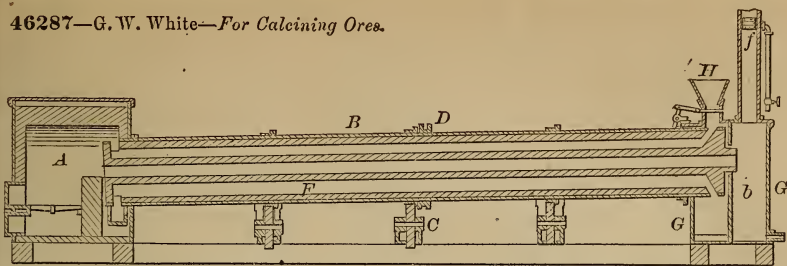
46283—Weber & Greene—Soda Water Apparatus.



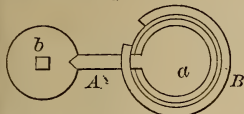
46286—H. F. Wheeler—Breech Loading Fire Arm.



46287—G. W. White—*For Calcining Ores.*



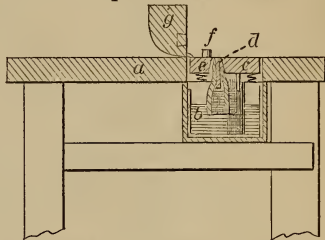
46288—F. Wood,
Clasp.



46289—R. Wright,
Pencil Sharpener.

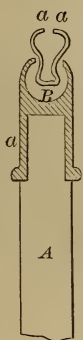


46291—W. S. Bell—*Folding Paper Collars.*

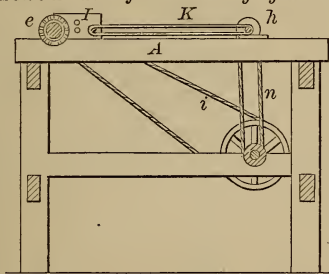


46290

T. C. Ball—Mop Holder.



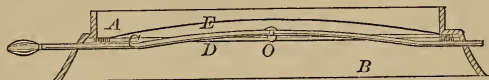
46294—S. Boyden—*Picking Cylinder.*



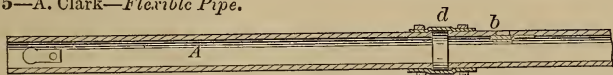
46297
J. N. Dennison,
Rivet.



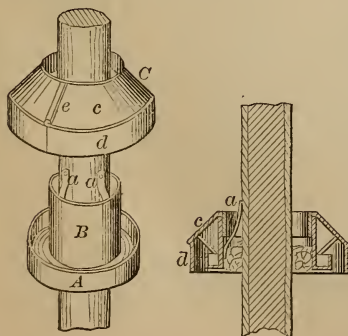
46293—A. E. & J. B. Blood—*Coal Sifter.*



46295—A. Clark—*Flexible Pipe.*



46298—T. Hilton—*Tree Protector.*

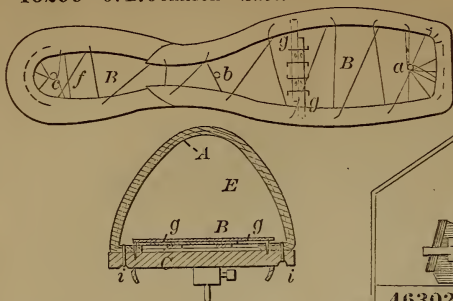
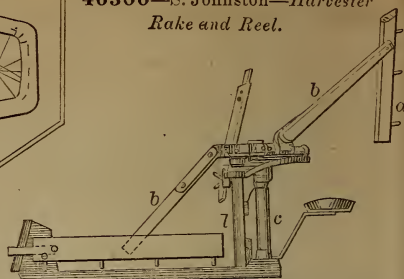
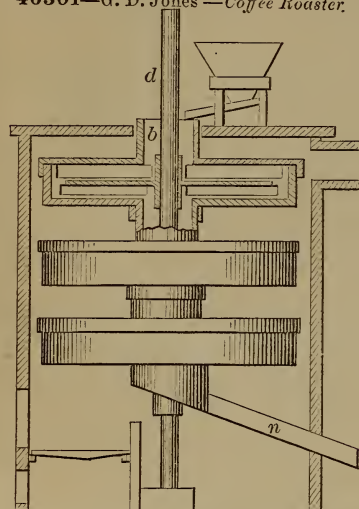
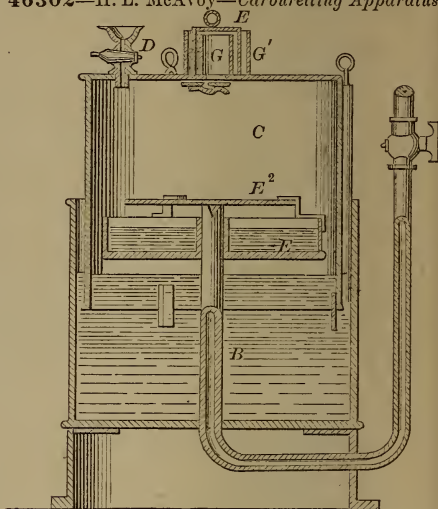
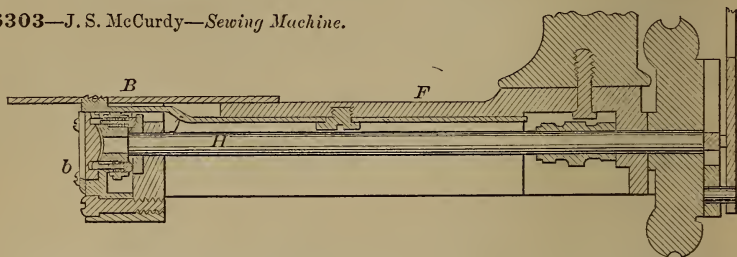
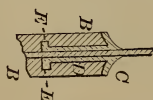


46292—H. Berdan—*Cartridge.*

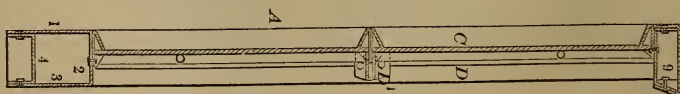
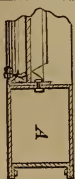


46296—G. F. J. Colburn—*Coat and Hat Rack.*



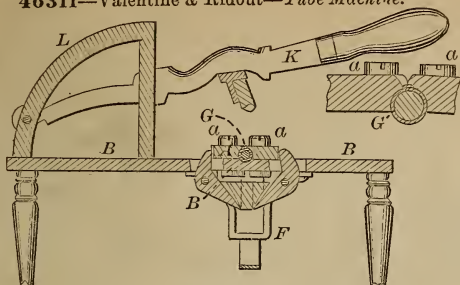
46299—J. B. Johnson—*Shoe*.46300—S. Johnston—*Harvester Rake and Reel*.46301—G. D. Jones—*Coffee Roaster*.46302—H. L. McAvoy—*Carburettet Apparatus*.46303—J. S. McCurdy—*Sewing Machine*.N. Miles—*Table Cutlery*.

46304—

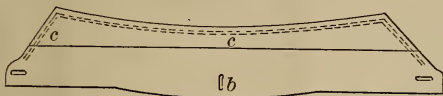
C. Neer—*Metallic Window Sash*.

46305—

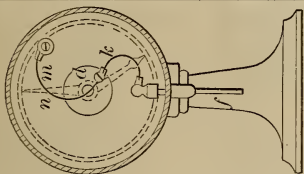
46311—Valentine & Ridout—*Tube Machine.*



46310—G. K. Snow—*Paper Collar.*

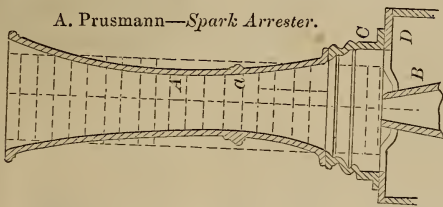


46309—T. Shaw—*Compensating Motion.*

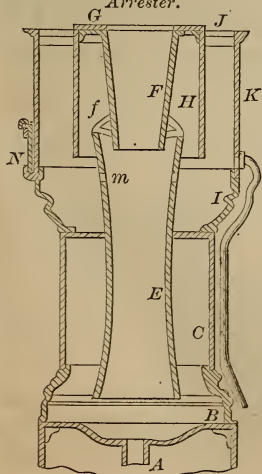


A. Prusmann—*Spark Arrester.*

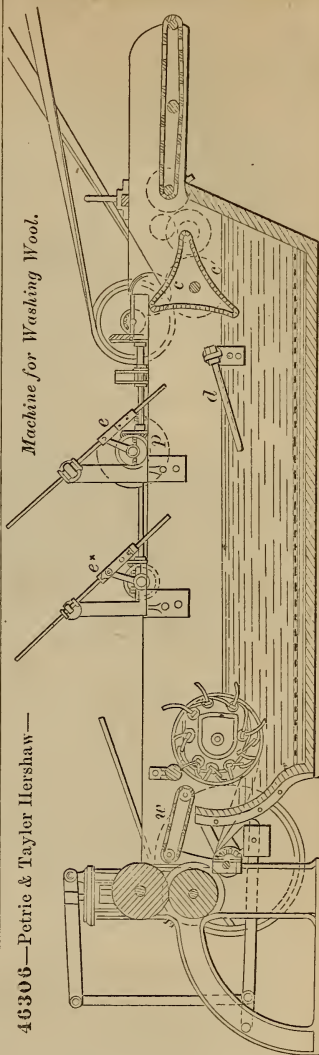
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46307—A. Prusmann—*Spark Arrester.*

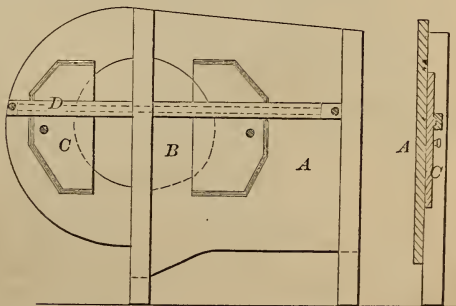


Machine for Washing Wool.

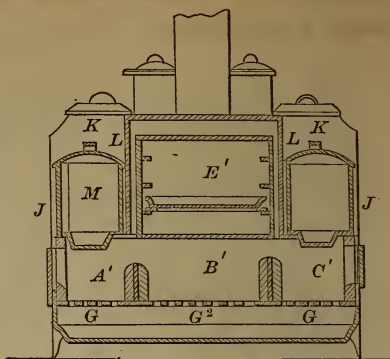
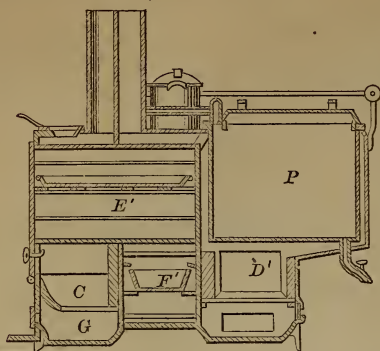


46306—Petrie & Taylor Hershaw—

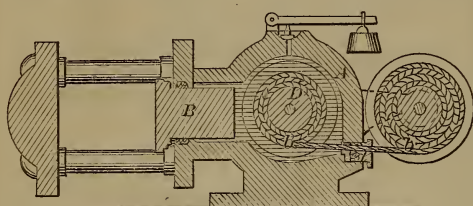
46312—H. W. Veregge—*Fanning Mill.*



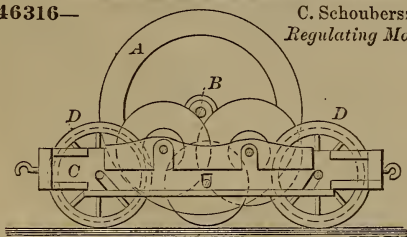
46313—W. Young—Ship's Galley.



46315—Desgoffe & Ollivier—Hydraulic Apparatus.



46316—

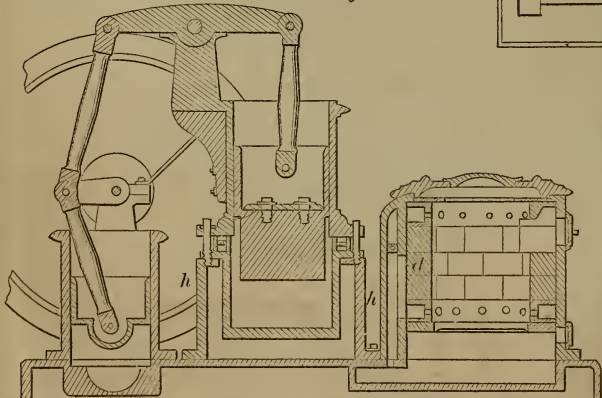
C. Schouberszky—*Regulating Motion.*

O. Allen—Butter Mould.

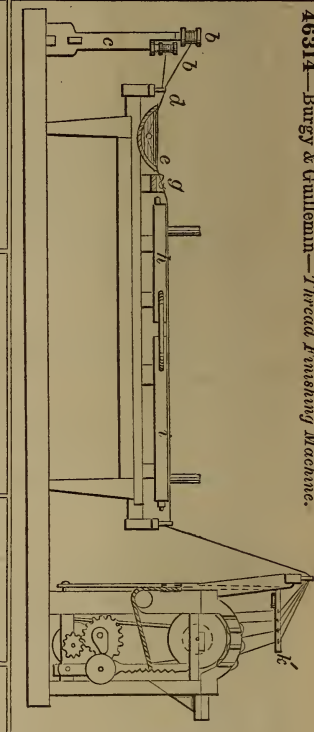


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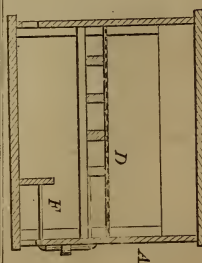
46320—C. W. Baldwin—Hot Air Engine.



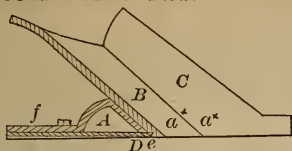
46314—Burg & Guillemin—Thread Finishing Machine.



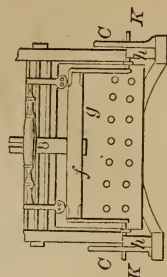
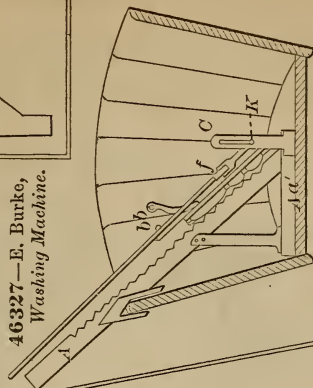
46318—W. Adamson—Utilizing Offal.



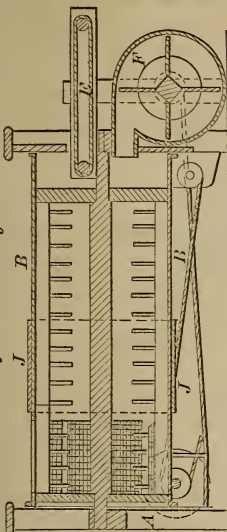
46321—E. Ball—Plow.



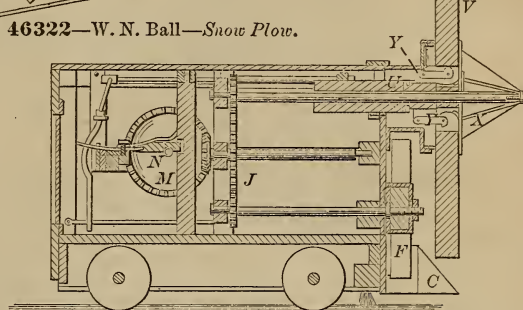
46327—E. Burke,
Washing Machine.



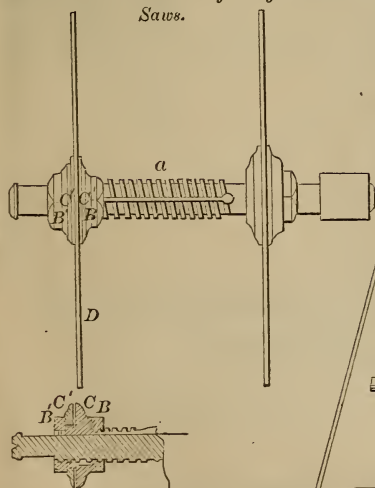
46323—H. Balsley—Tobacco Dryer.



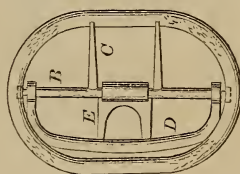
46322—W. N. Ball—Snow Plow.



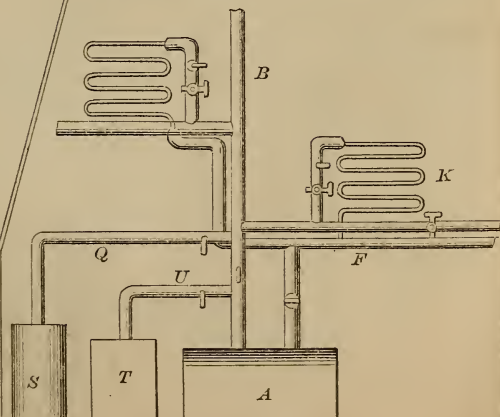
46325—J. Barnard—Adjusting Circular
Saws.



46324—I. Banister,
Buckle.



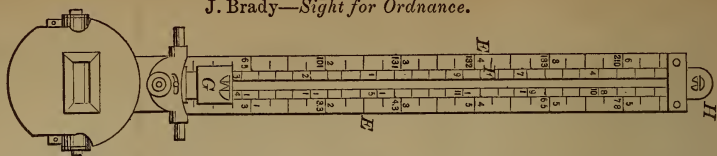
46328—C. S. Brown—Fire Extinguisher.



46326—J. Bavier—Buckle.

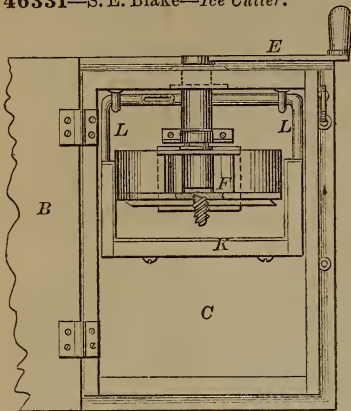


J. Brady—*Sight for Ordinance.*

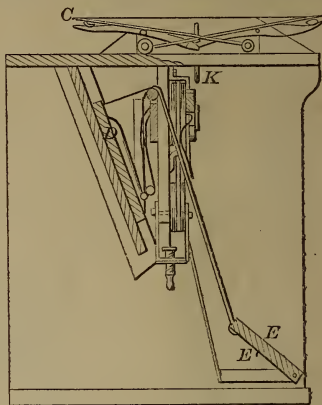


46329—

46331—S. E. Blake—*Ice Cutter.*



46335—Clark & Stephenson—*Melodeon Swell.*



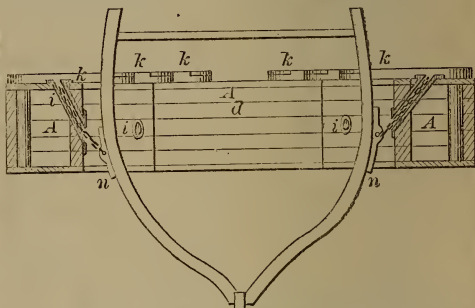
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46334—

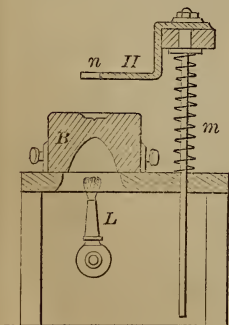
R. J. Beardsley—*Castor*.



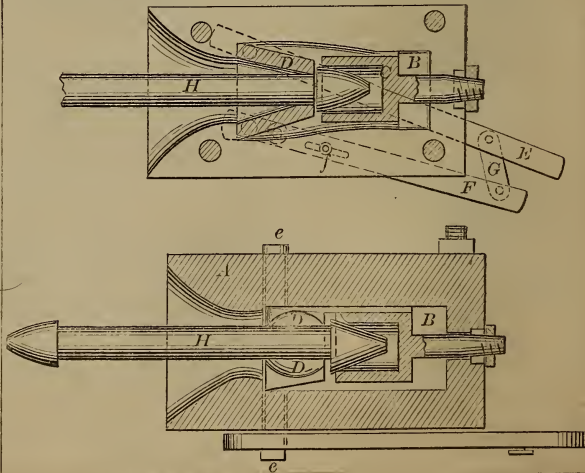
46333—T. Bell—*Raising Sunken Vessels.*



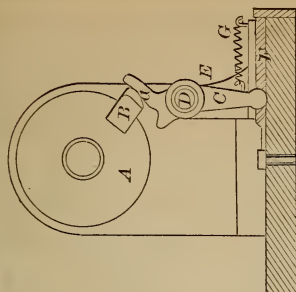
46330—H. Bock—
Button Machine.



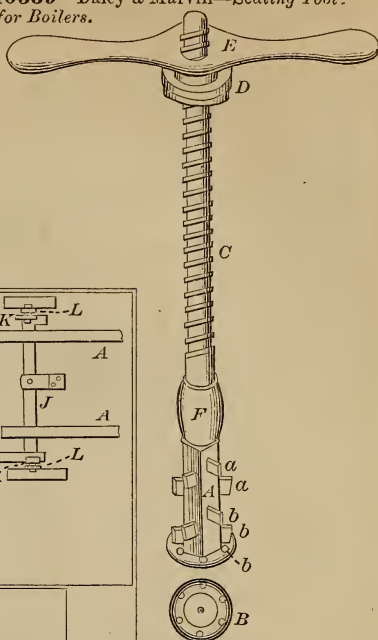
46336—C. Clinton—*Car Coupling.*



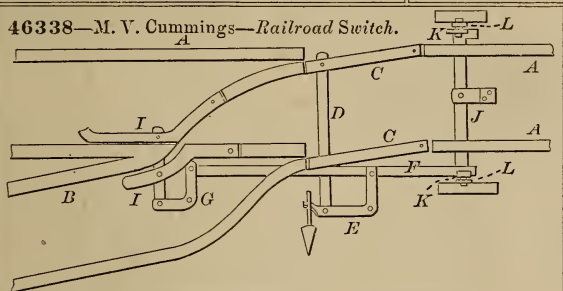
46337—P. Coleman.
Nut Machine.



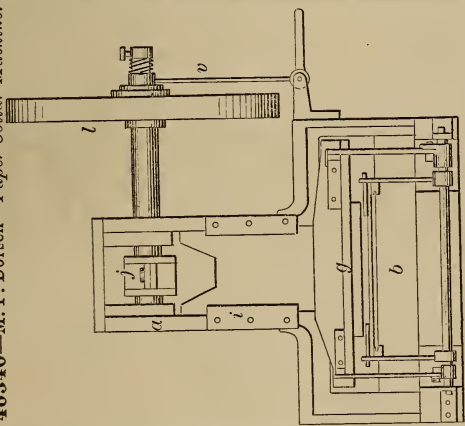
46339—Daley & Marvill—Scaling Tool.
for Boilers.



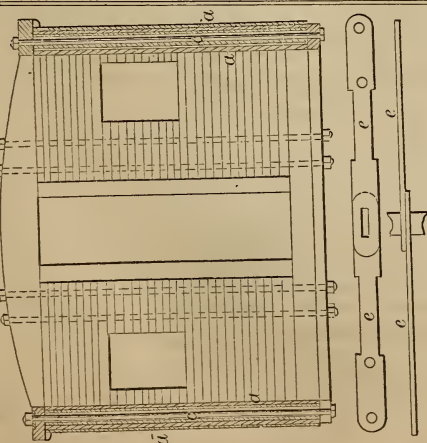
46338—M. V. Cummings—Railroad Switch.



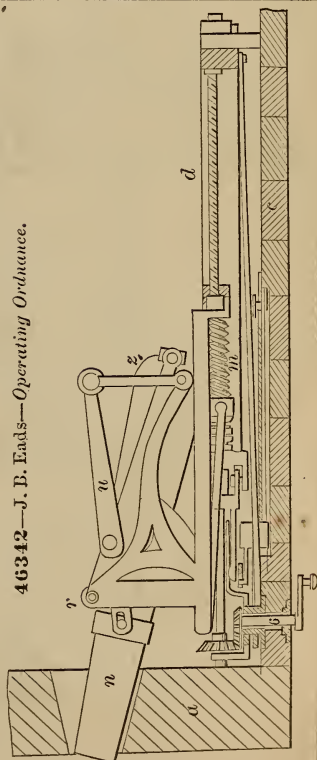
46340—M. P. Dorsch—Paper Collar Machine.

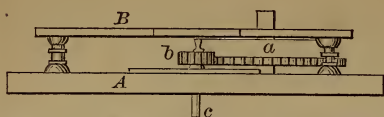
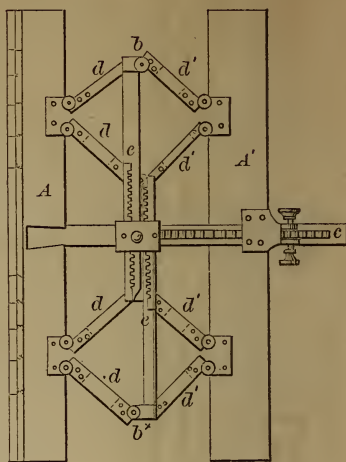
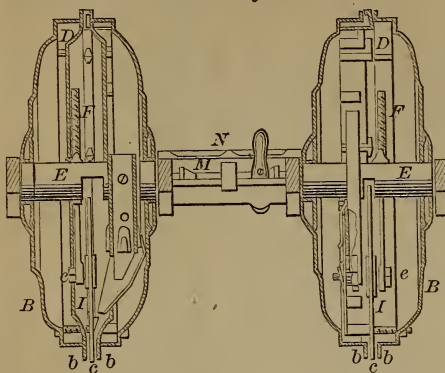
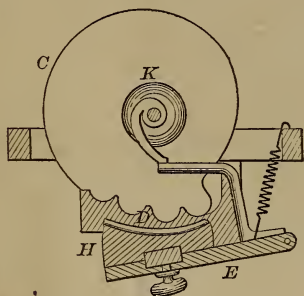
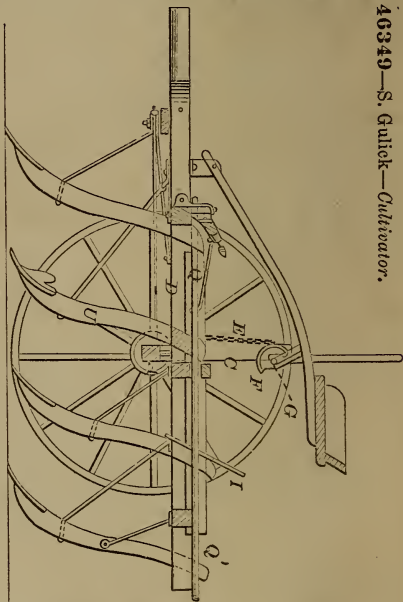
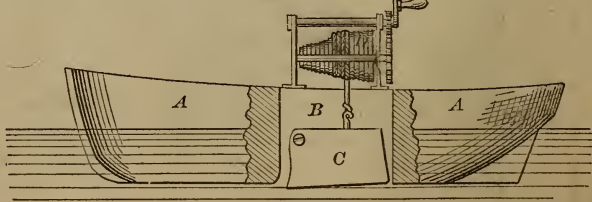


46341—D. H. Dotterer—Railway Car.

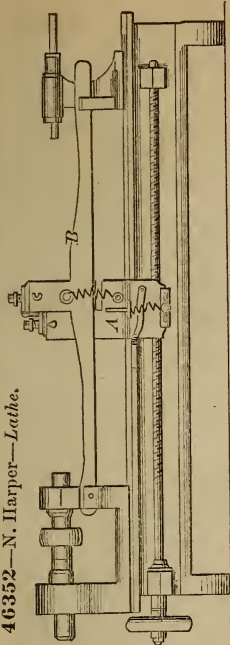


46342—J. B. Eads—Operating Ordnance.

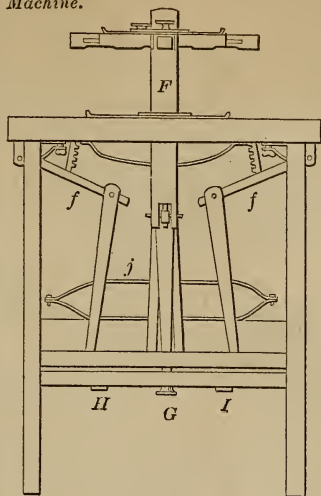


46343—C. W. Fogg—*Watch*.46348—E. C. Gillette—*Parallel Ruler*.46344—C. Foster—*Seeding Machine*.46345—N. C. Fowler—*Artificial Teeth*.46350—J. D. Hall—*Bread and Meat Slicer*.46349—S. Gulick—*Cultivator*.46351—J. C. & H. W. Hamilton—*Windlass*.46346—N. C. Fowler—*Artificial Teeth*.

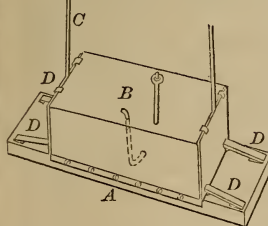
46352—N. Harper—*Lathe.*



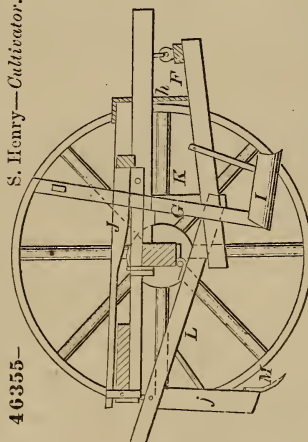
46353—J. W. Harrison—*Book Cover Machine.*



46356—B. B. & J. R. Hill—*Box Trap.*

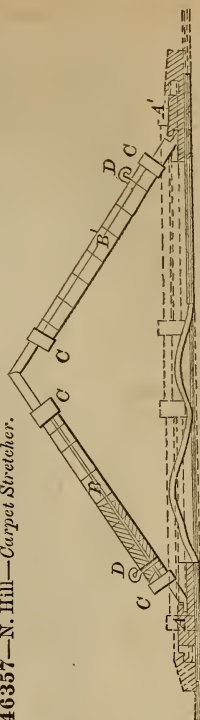


S. Henry—*Culticator.*

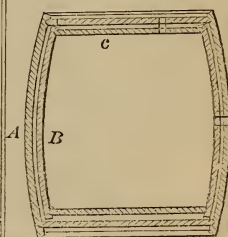


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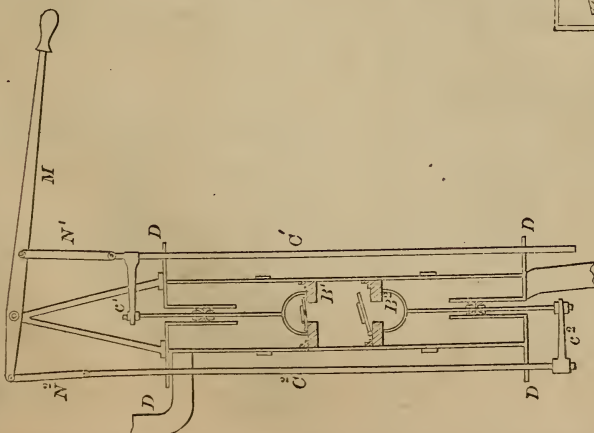
46357—N. Hill—*Carpet Stretcher.*



46359—J. Holland, *Oil Barrel.*

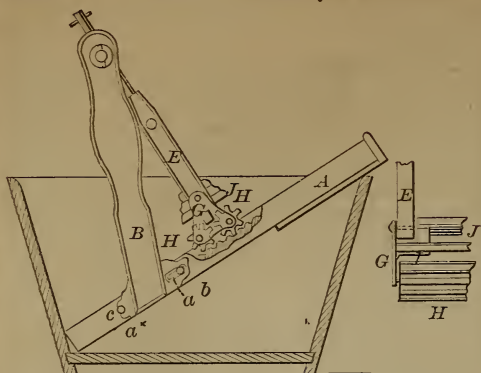
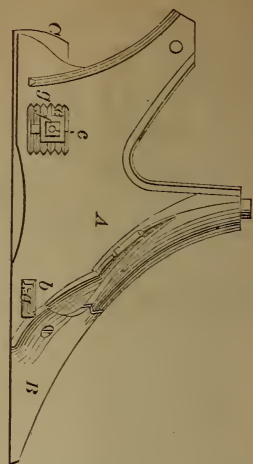
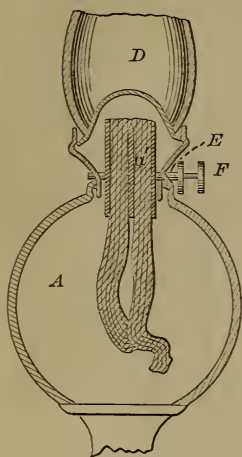
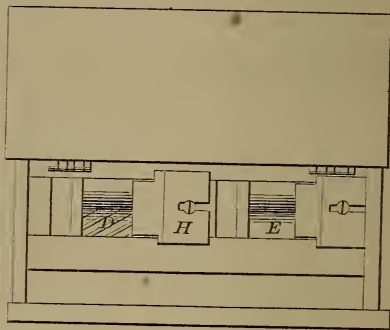
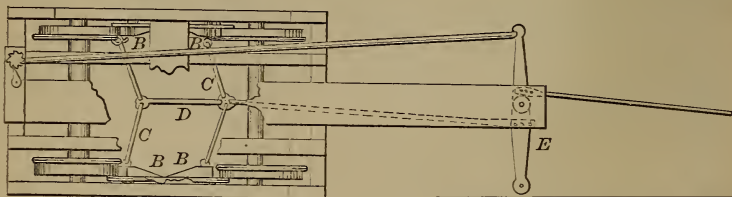
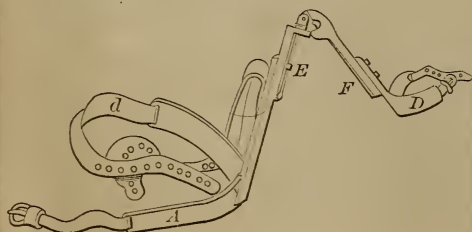
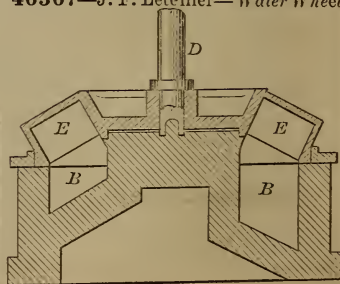


46360—N. Hotz—*Pump.*

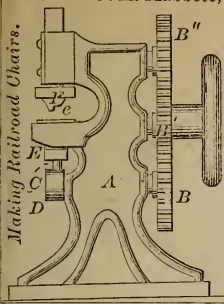


46358—J. B. Hodgskin—*Pencil Point Protector.*

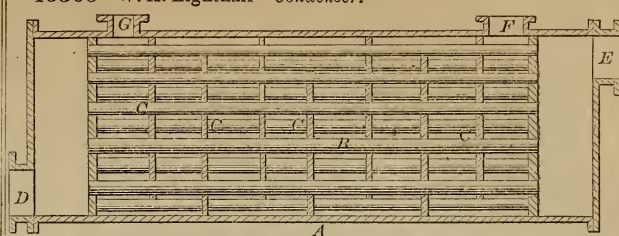


46361—C. H. Hudson—*Attachment for Washboards.***46362**—D. F. Humphrey—*Nov.***46363**—J. H. Irwin—*Lamp Burner.***46364**—J. F. Keller—*Seed Planter.***46366**—J. W. Latcher—*Car Brake.***46365**—S. Kinman—*Rest for Riflemen.***46367**—J. F. Letellier—*Water Wheel.*

46370—J. H. Mabbett,

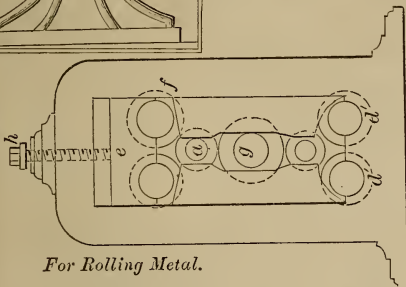


46368—W. A. Lighthall—Condenser.

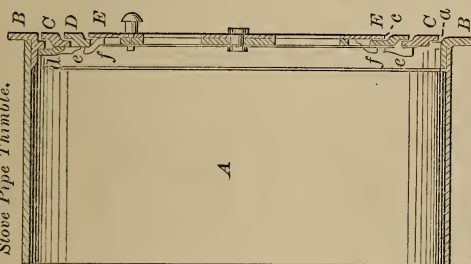


46371—H. F. Mann—

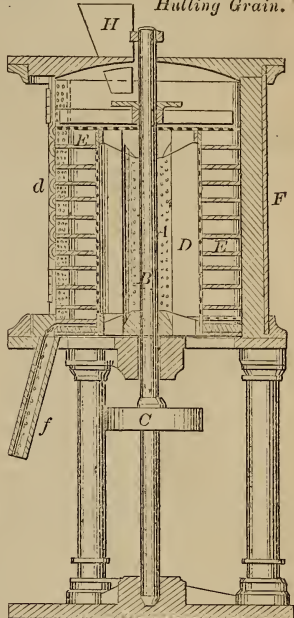
For Rolling Metal.



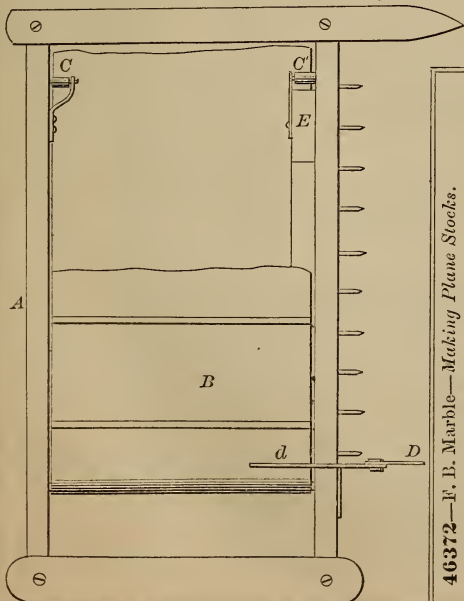
46369—T. M. Losie—
Stone Pipe Thimble.



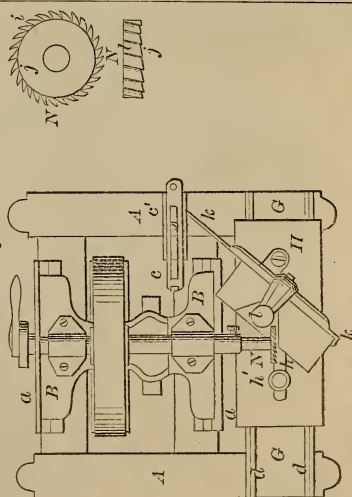
46374—J. M. Mayer—Machine for
Hulling Grain.



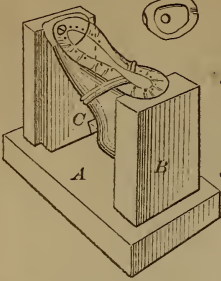
46373—C. W. & W. W. Marsh—Harvester.



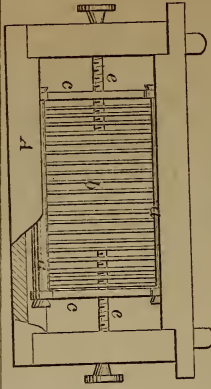
46372—F. B. Marble—Making Plane Stocks.



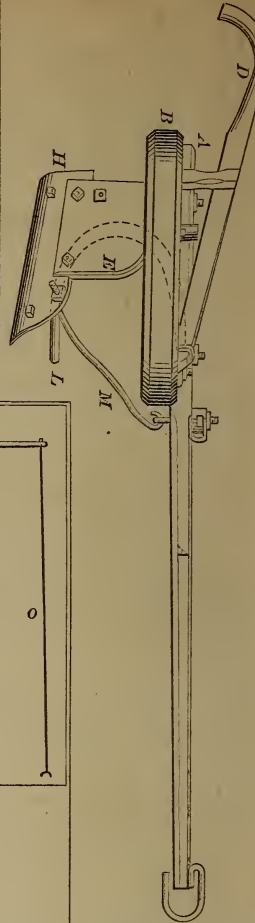
46375—
McIntire & Thompson—



Toe Piece for Lasting Machine.

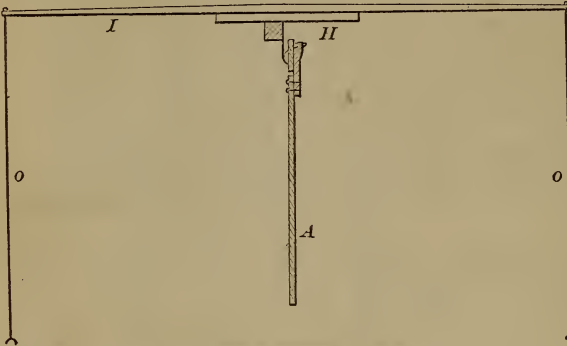


46381—A. J. Nichols—*Expandable Reed for Weaving.*

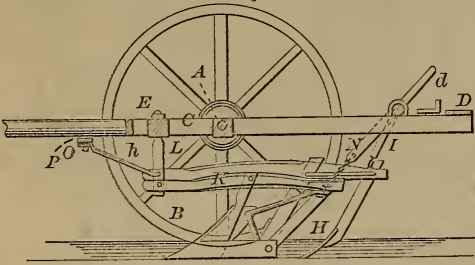


46376—E. Minnich—*Cultivator.*

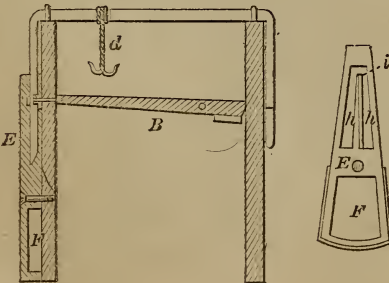
46377—T. S. Minniss—*Hanging Gates.*



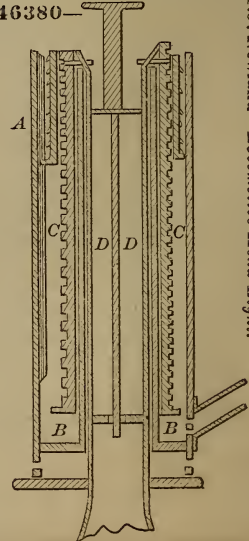
46378—S. H. Mitchell—*Gang Plow and Cultivator.*



46379—H. B. Myers—*Animal Trap.*



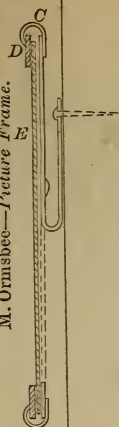
46380—



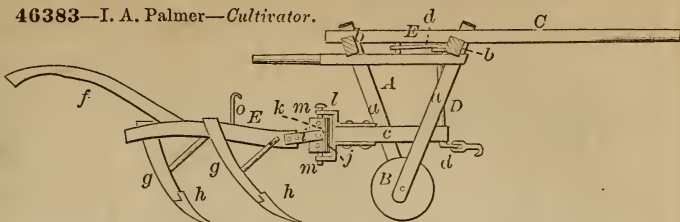
T. J. Newland—*Locomotive Head Light.*

46382—

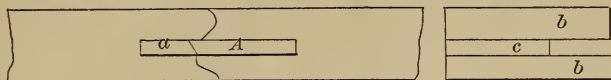
M. Ormsbee—Picture Frame.



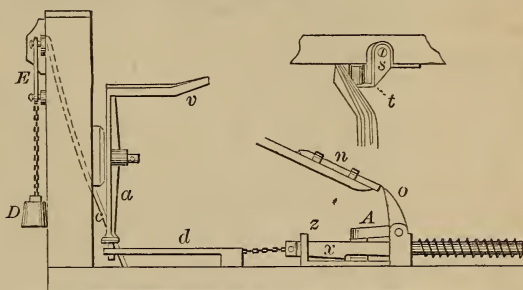
46383—I. A. Palmer—Cultivator.



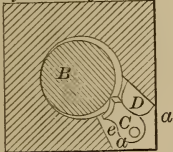
46388—G. M. Ramsay—Rail Joint.



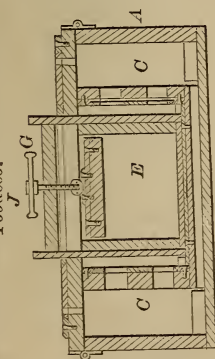
46386—T. Pye—Spinning Machine.



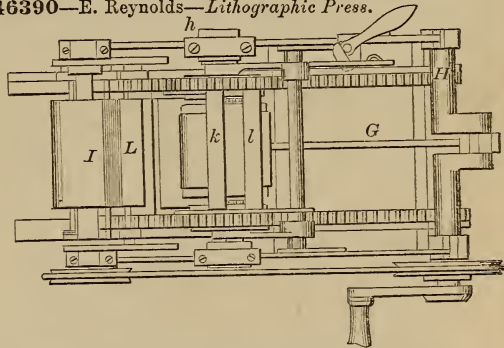
46389—
Raymond & Brassington—
Self-Locking Nut.



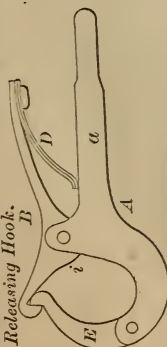
46387—P. Rauch—Mode of Curing
Tobacco.



46390—E. Reynolds—Lithographic Press.

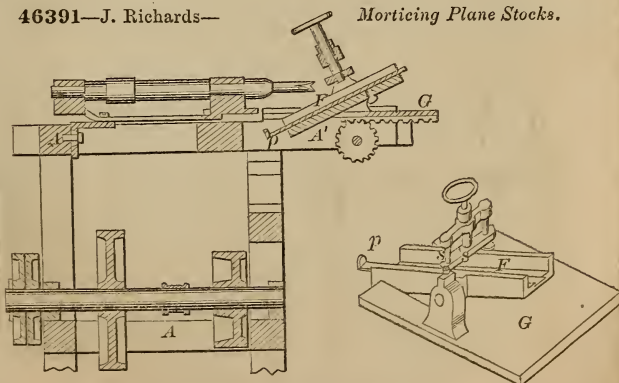


46385—T. E. Purchase—Retaining and
Releasing Hook.

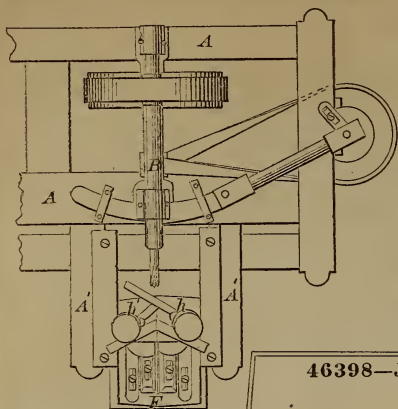


46391—J. Richards—

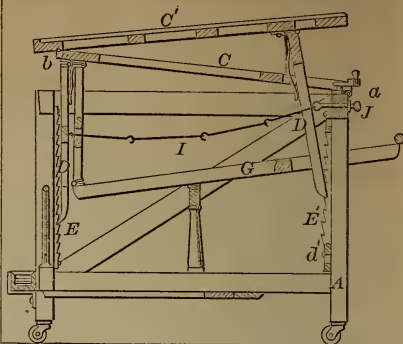
Morticing Plane Stocks.



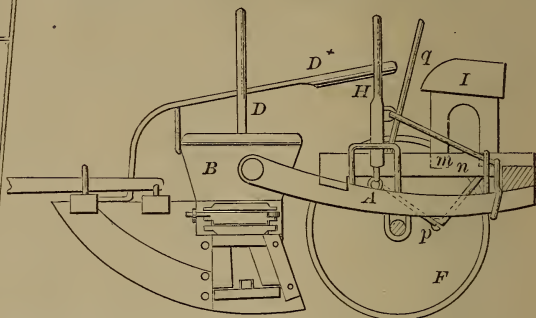
46392—J. Richards—Morticing Plane Stocks.



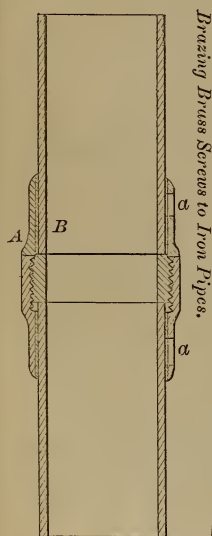
46396—J. Scouler—Camera Stand.



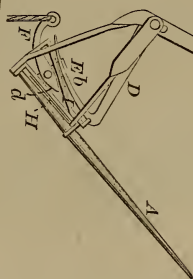
46398—J. M. Smith—Corn Planter.



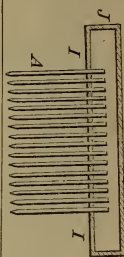
46395—W. B. Scaife—



Brazing Brass Screws to Iron Pipes.

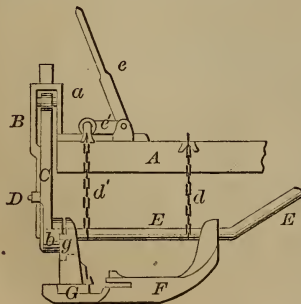


46393—J. L. Ripley—Horse Hay Fork.

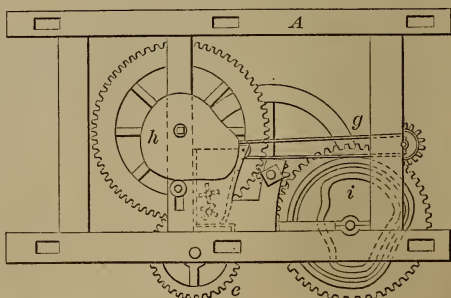


46397—Siccardi & Hyde—Comb for Wool, Flax, &c.

46394—E. P. Russell—Harvester.

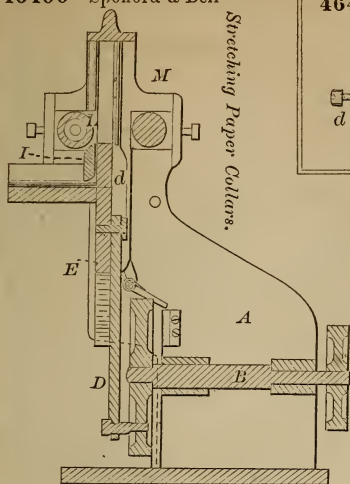


46399—J. T. Smith—Brick Machine.



46400—Spofford & Bell—

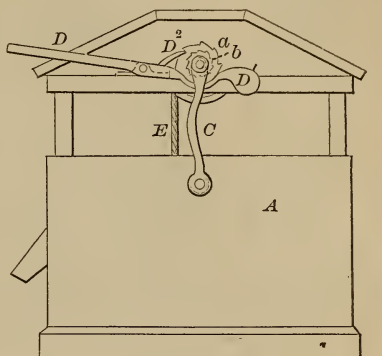
Stretching Paper Collars.



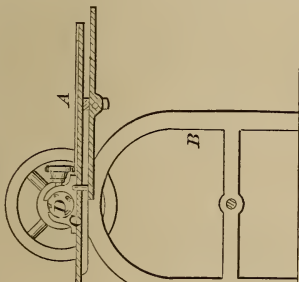
46401—E. C. Stiles—Milling Machine.



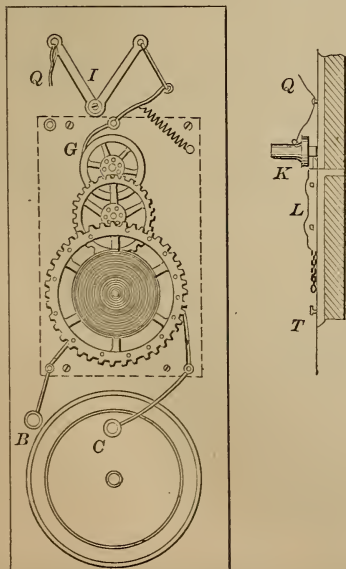
46403—A. Tarbox—Water Elevator.



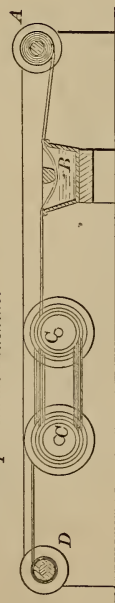
46404—J. Thompson—Cigar Machine.



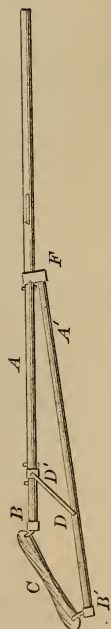
46402—B. L. Stone—Burglar Alarm.



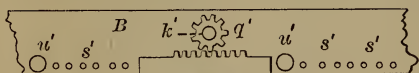
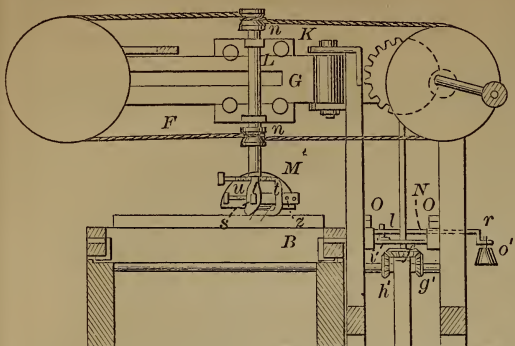
46405—L. P. Tice—Paper Twine Machine.



46406—G. W. Tolhurst—Mop.



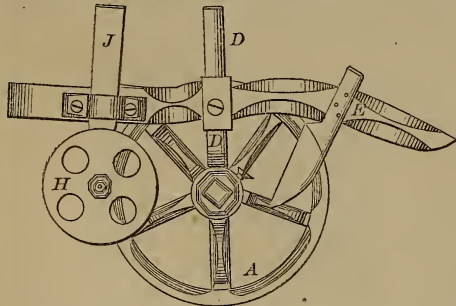
46407—A. M. Tomb—Polishing Marble.



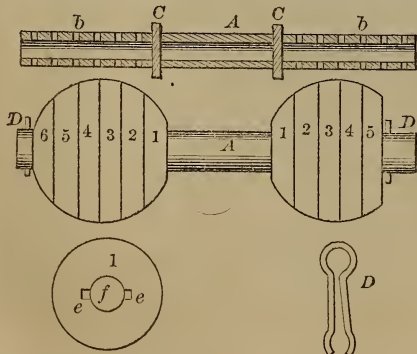
46408—W. H. Towers—Shoe String.



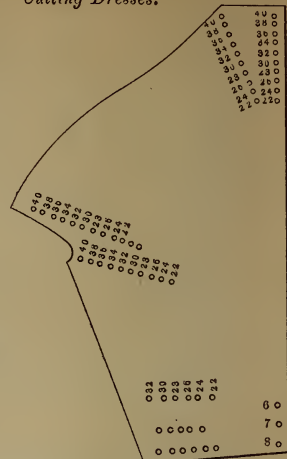
46412—R. Wilson—Wheeled Plow.



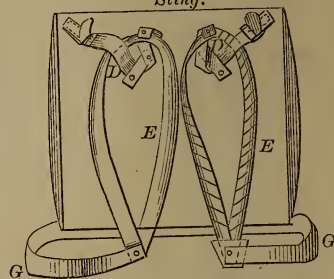
46413—G. P. Windship—Graduated Dumb Bell.



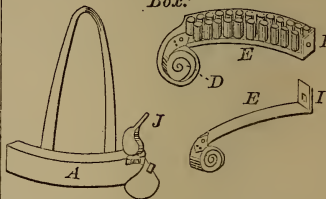
46409—M. M. Turner—Chart for Cutting Dresses.



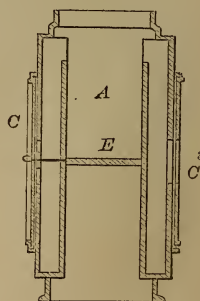
46410—J. T. Warren—Knapsack Sling.



46411—M. V. B. White—Cartridge Box.



46414—G. G. Wolfe—Damper.



46415—W. L. Woods—*Paper File.*

Fig. 1

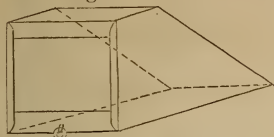
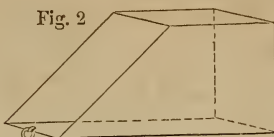
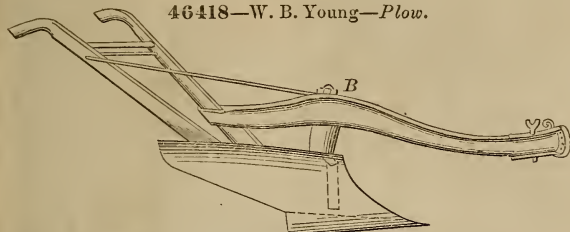


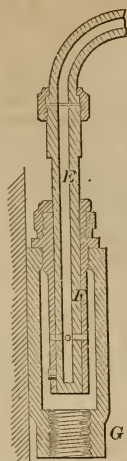
Fig. 2



46418—W. B. Young—*Plow.*

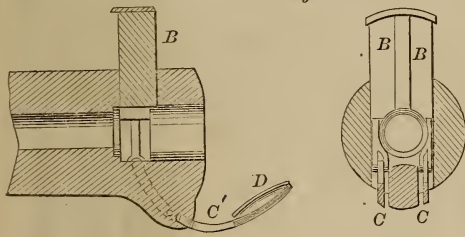


46416—

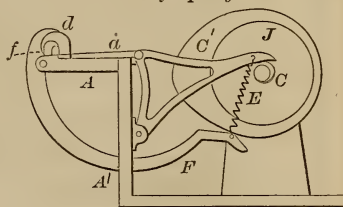


L. W. Woodward—*Steam Trap.*

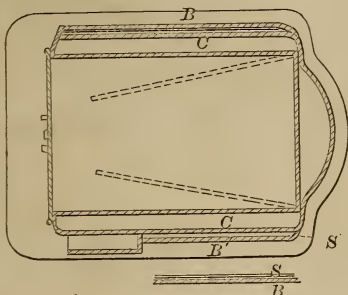
46417—T. Yates—*Breech-Loading Ordnance.*



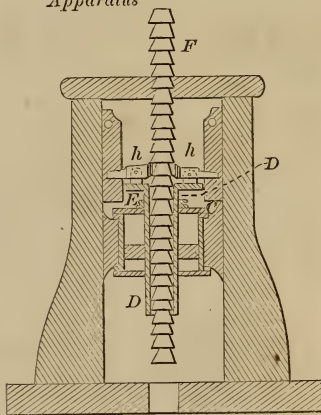
46421—Gray & Curtis—*Straightening Leaves of Springs.*



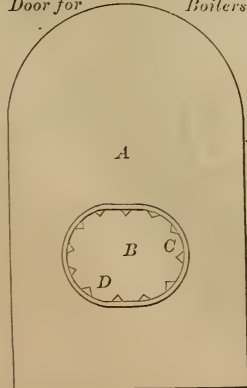
46422—R. Little—*Stove.*



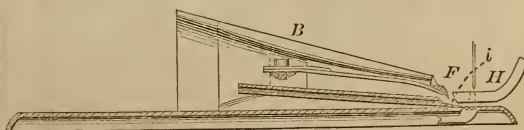
46420—C. E. Foster—*Well-Boring Apparatus*



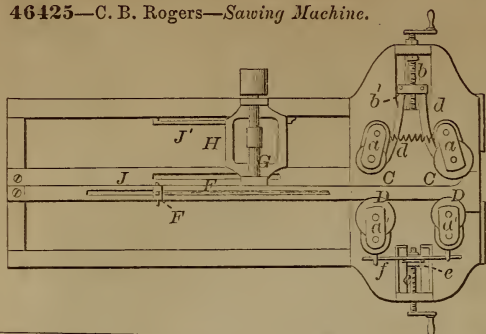
46423—J. Penketh—*Furnace Door for Boilers.*



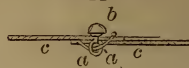
46424—T. Robjohn—*Sewing Machine.*



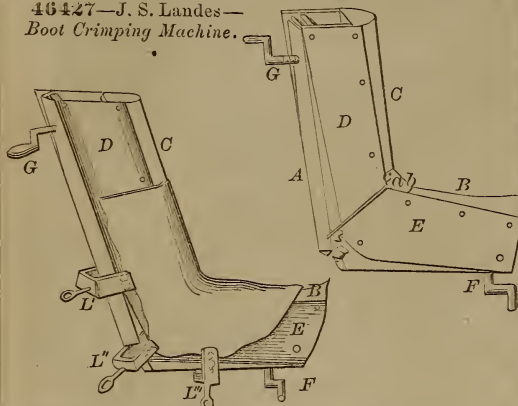
46425—C. B. Rogers—Sawing Machine.



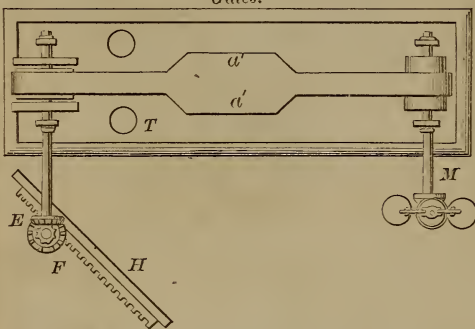
46426—G. K. Snow—Neck-Tie Supporter.



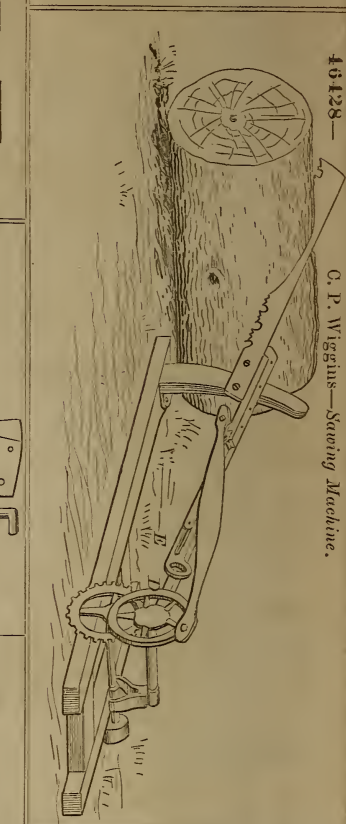
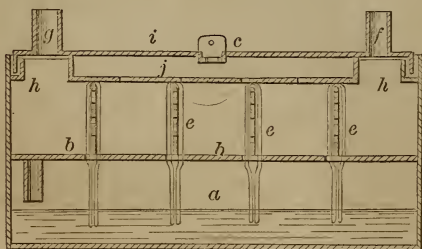
46427—J. S. Landes—Boot Crimping Machine.



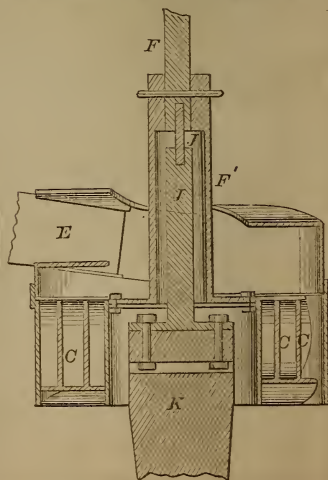
46430—J. H. Wooster—Governor for Water Wheel Gates.



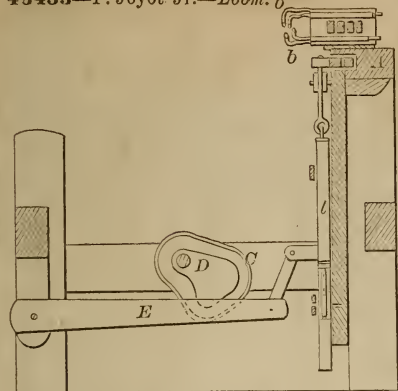
46432—W. H. Buckland—Carburetting Apparatus.



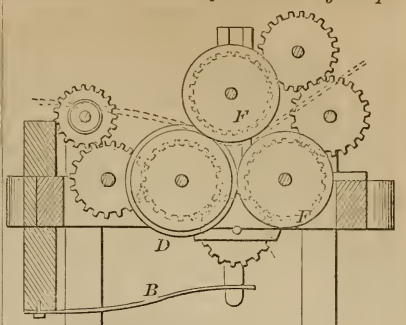
46429—J. H. Wooster—Water Wheel.



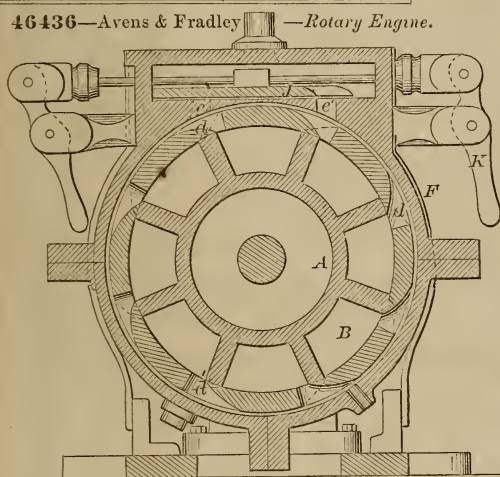
46433—P. Joyot Jr.—*Loom.* *b*



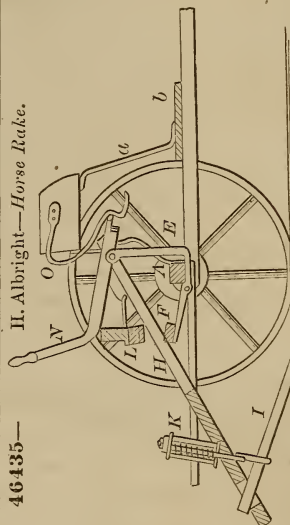
46439—G. J. Bentley—*For Riving Hoops.*



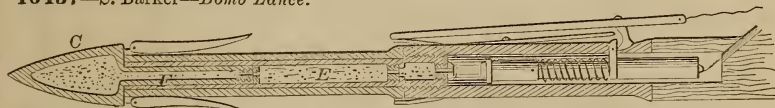
46436—Avens & Fradley—*Rotary Engine.*



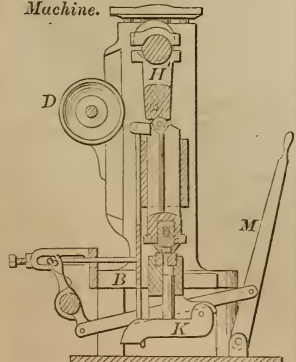
46435—
H. Albright—*Horse Rake.*



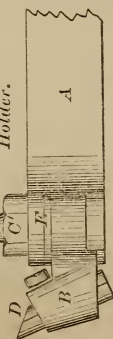
46437—S. Barker—*Bomb Lance.*



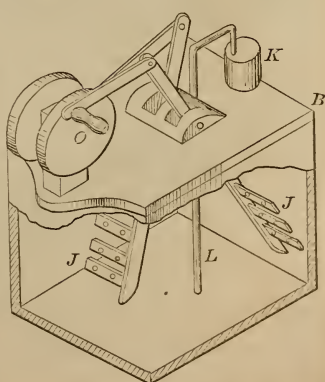
46434—F. Watkins—*Bolt Machine.*

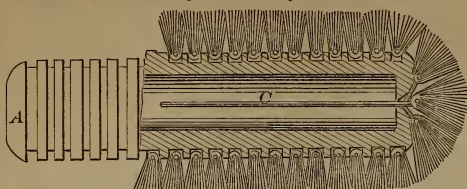
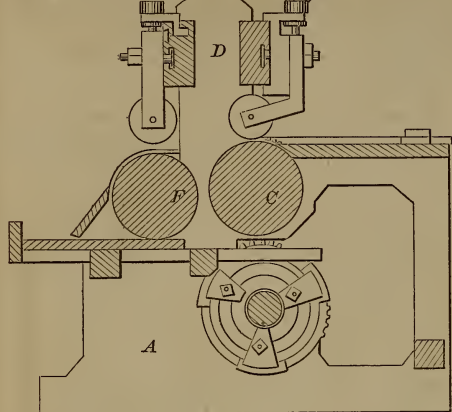
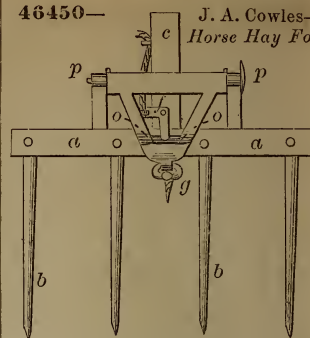
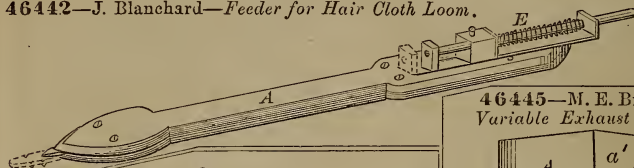
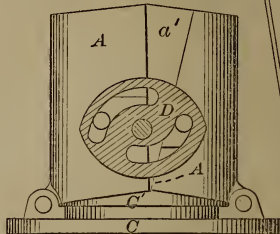
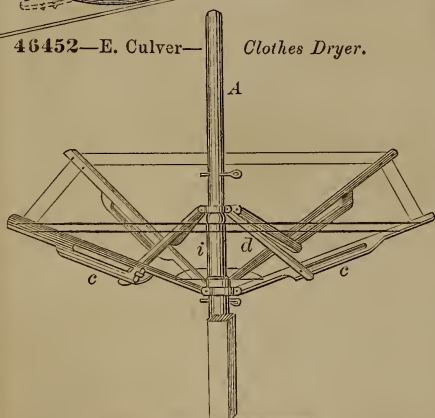
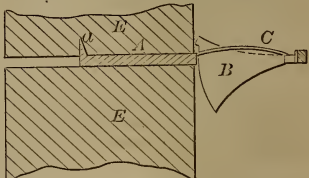
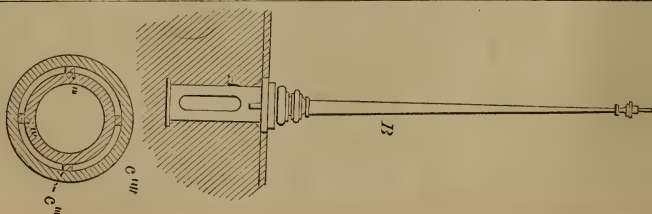


46438—C. P. Benoit—*Adjustable Tool Holder.*



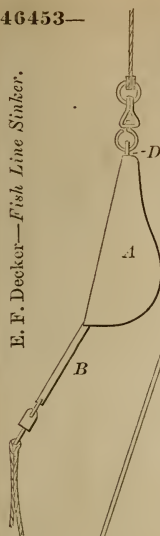
46440—E. L. Bergstresser—*Churn.*



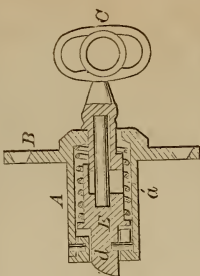
46441—P. Birchmeyer—*Brush for Cannon.*46448—E. E. Clarke—*For Cutting Pasteboard.*46450—J. A. Cowles—*Horse Hay Fork.*46447—E. Calderwood—*Reepling Rake.*46442—J. Blanchard—*Feeder for Hair Cloth Loom.*46445—M. E. Brown—*Variable Exhaust Nozzle.*46452—E. Culver—*Clothes Dryer.*46451—E. H. Crane—*Door Fastener.*46444—P. H. Benson—*Street Lamp Post.*

46453—

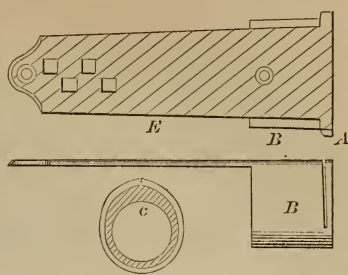
E. F. Decker—Fish Line Sinker.



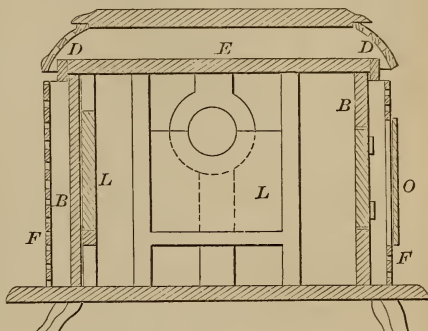
46456—Duncan & Ziegler—
Car Seat Lock.



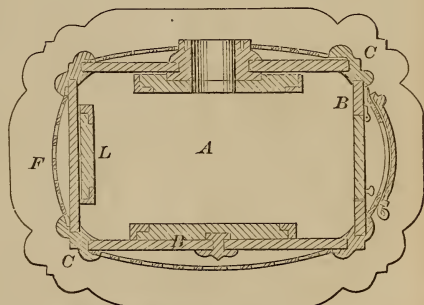
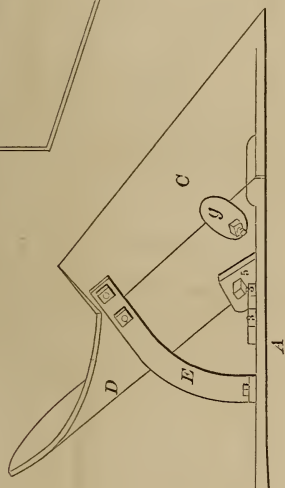
46458—M. R. Flanders—Scythe Fastening.



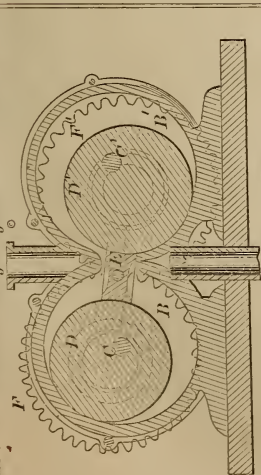
46455—P. Dodge—Soap Stone Store.



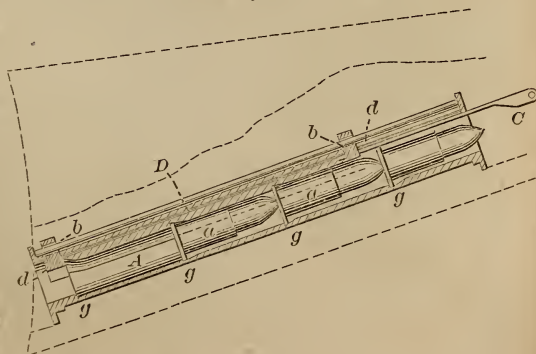
46454—J. Deere—Plow.



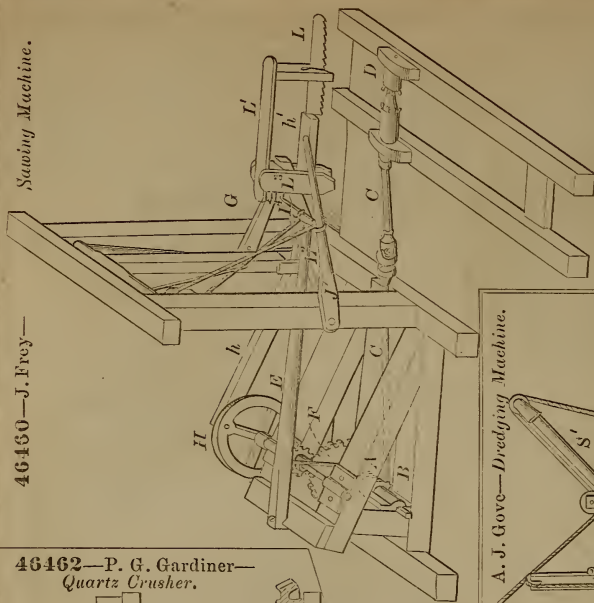
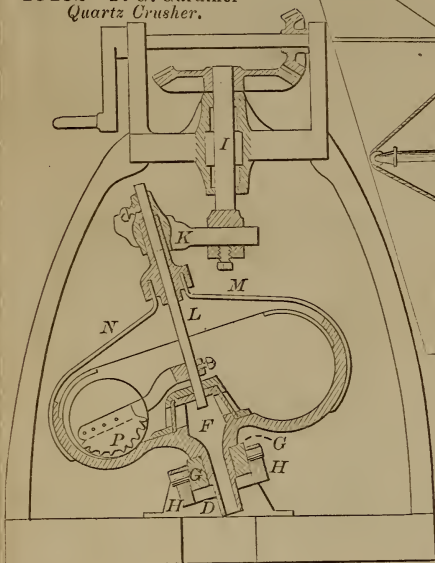
46457—J. R. Ellis—Rotary Engine.



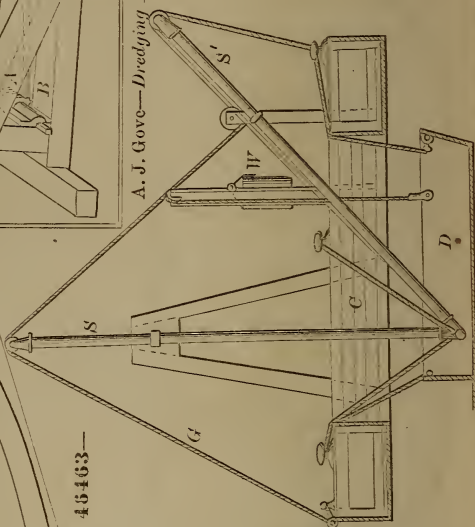
46459—V. Fogerty—Magazine Fire Arm.



Sawing Machine.

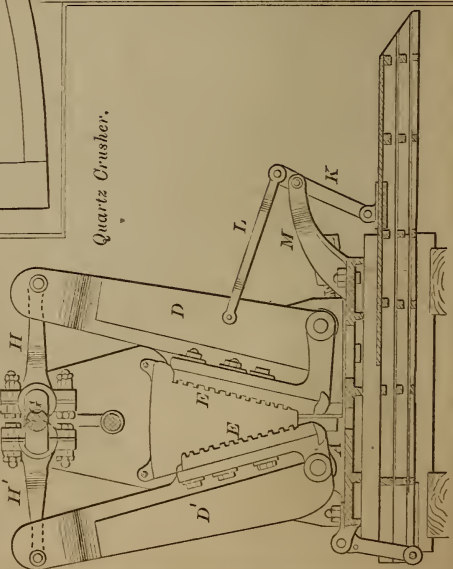
46462—P. G. Gardiner—
Quartz Crusher.

A. J. Gove—Dredging Machine.

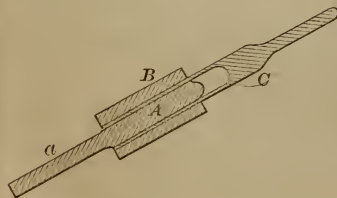


46463—

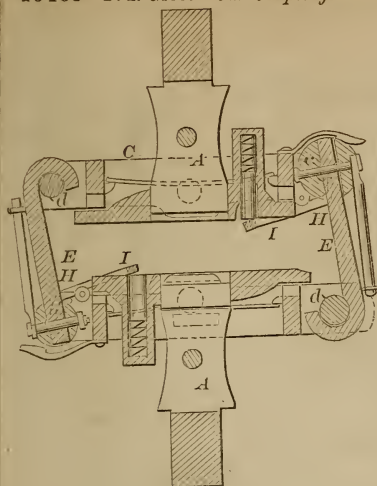
Quartz Crusher.



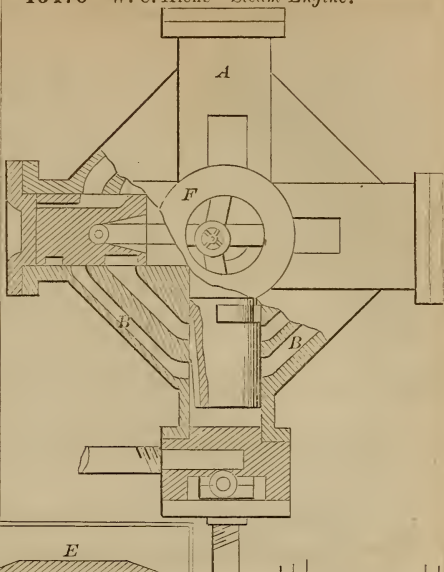
46461—E. P. Gardiner—

46464—W. H. Grant—Uniting
Rubber Rolls to Shafts.

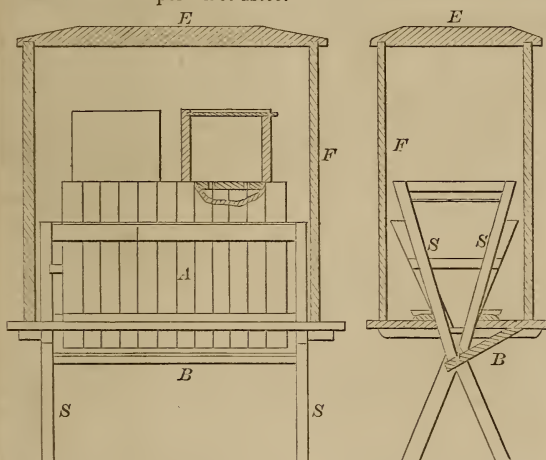
46465—P. I. Gross—*Car Coupling.*



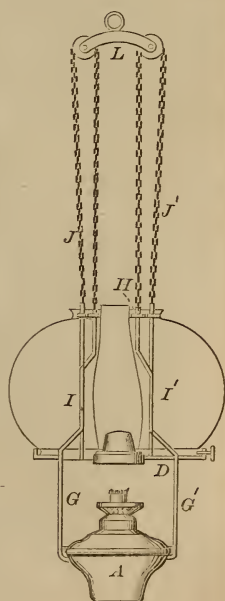
46470—W. C. Hicks—*Steam Engine.*



46467—J. Harper—*Bee Hive.*



46471—J. Ives—*Lamp.*

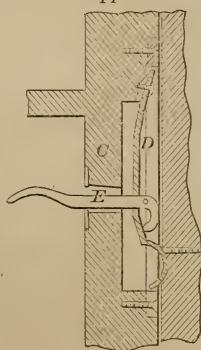


46468—

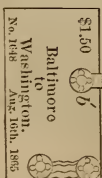
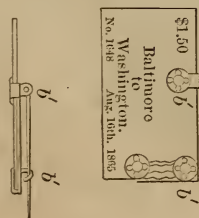


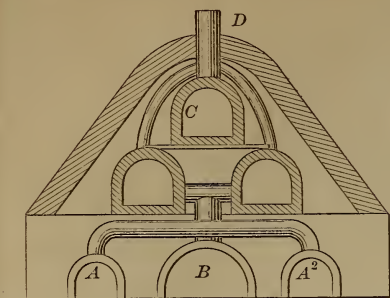
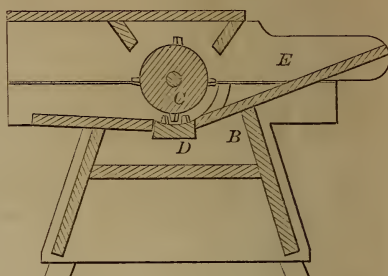
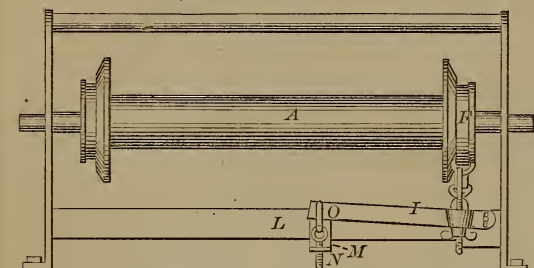
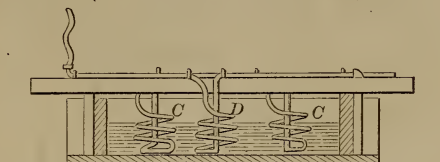
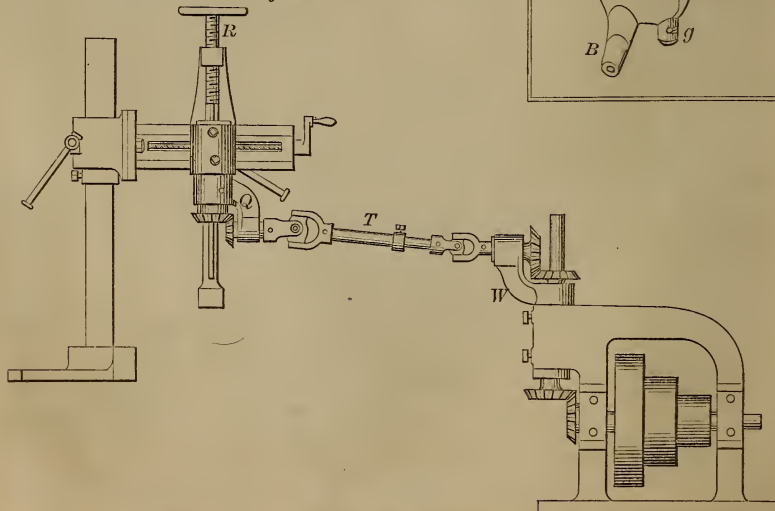
H. Harris—*Harness Snap.*

46472—H. F. Jenks—*Sash Supporter.*

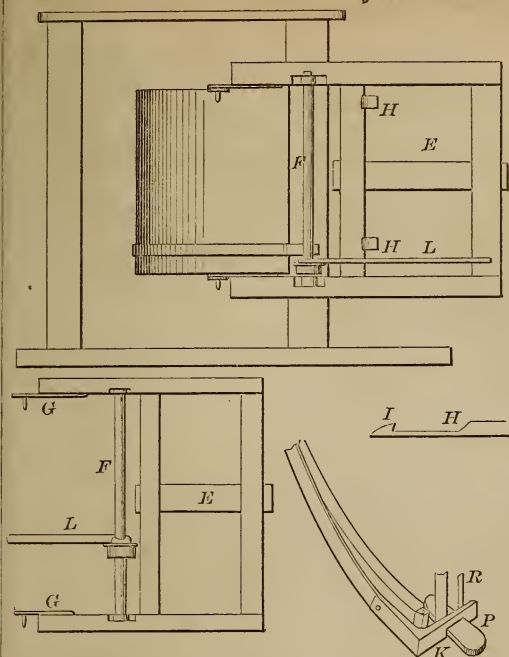


46469—J. O. Harris—*Ticket Holder.*

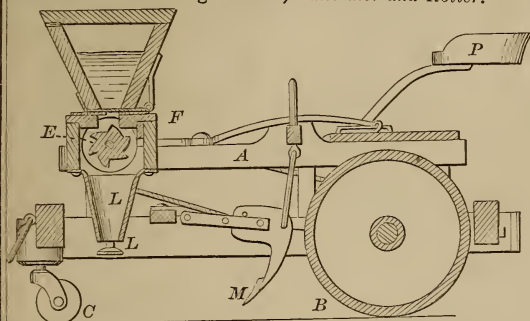


46473—J. Jennings—*Gas Apparatus.*46474—D. Kaufman—*Threshing Machine and Straw Cutter.*46475—Kenison & McClary—*Friction Mechanism for Looms.*46477—B. I. Lane—*Inhaling Apparatus.*46476—A. G. Knap—*Stirring and Cooling Lard.*46478—I. S. Ladback—*Drilling Machine.*

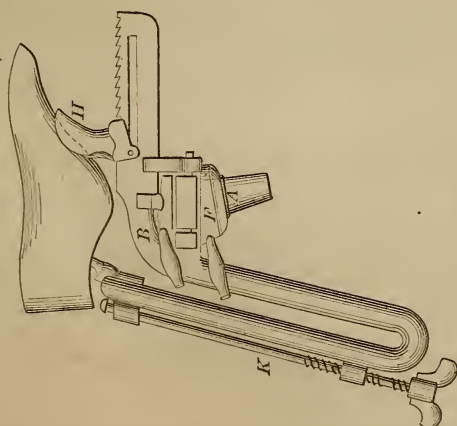
46179—J. P. Lelzelter—Wood Bending Machine.



46180—J. P. Long—Seeder, Cultivator and Roller.



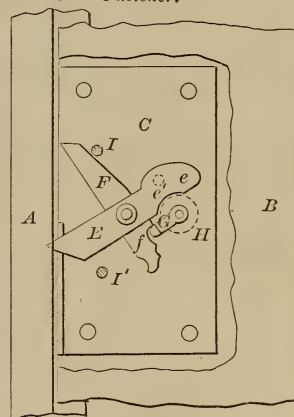
46181—A. W. Moore—Jack for Pegging Boots.



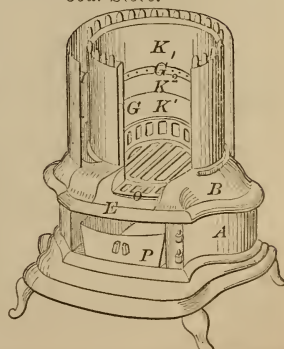
46182—R. Montgomery—Aerial Railroad.



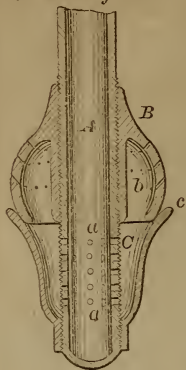
46181—W. C. McGill—Sash Fastener.



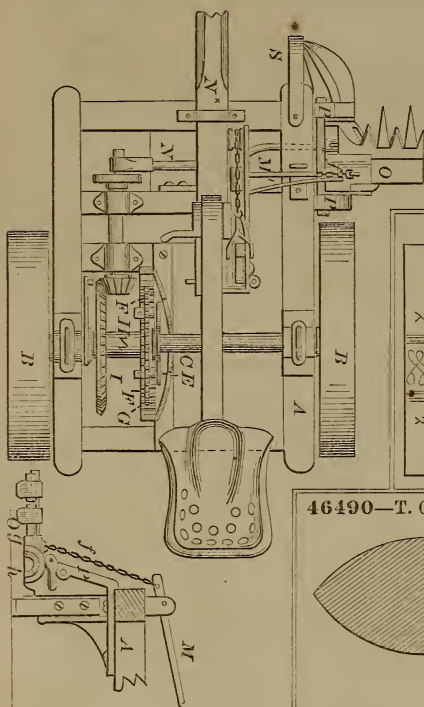
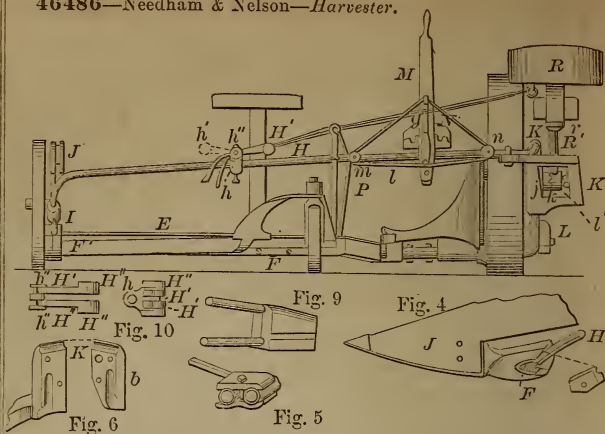
46183—J. Morrison—Coal Store.



46485—G. M. Mowbray
Oil Well Ejector.

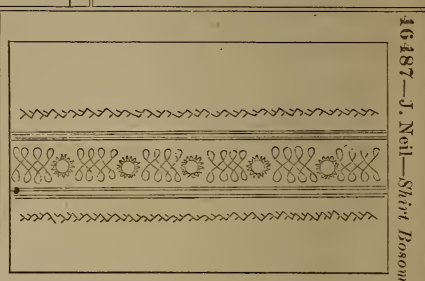
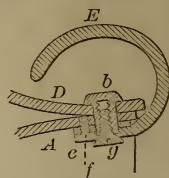


46486—Needham & Nelson—*Harvester.*

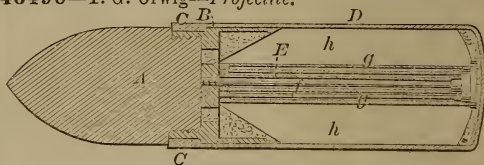


46488—T. Nishwitz
Harvester.

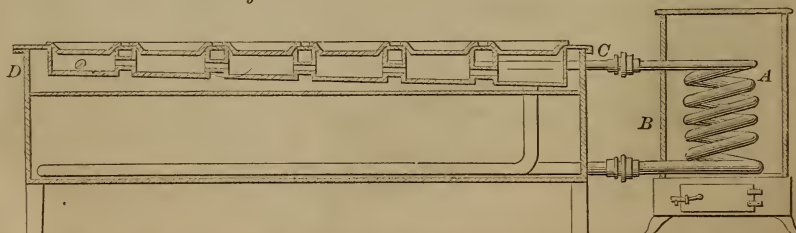
46489—O. B. North—*Saddle Tree.*



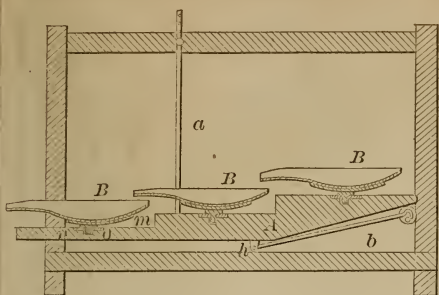
46490—T. G. Orwig—*Projectile.*



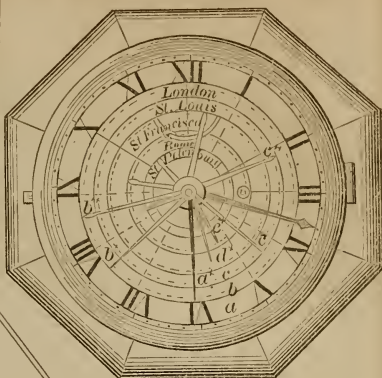
46491—S. Patrick—*Carving Table.*



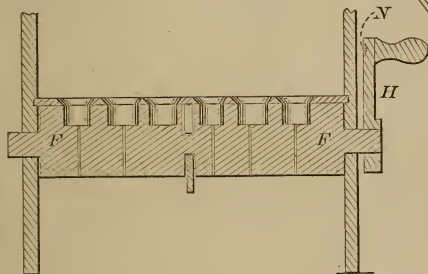
46492—C. C. Peck—*Amalgamator.*



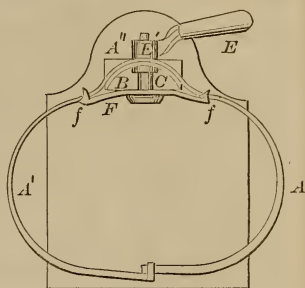
46496—W. B. Purdy—*Time Piece.*



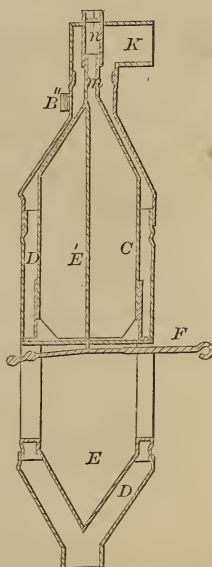
46493—T. W. Pierce—*Stock Feeder.*



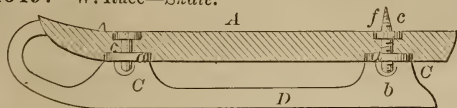
46498—R. Ramsey—*Bag Holder.*



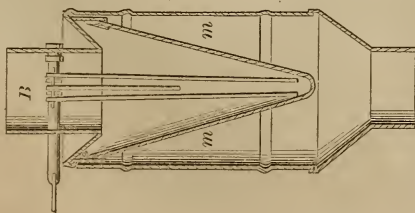
46499—T. Roberts—*Stove Drum.*



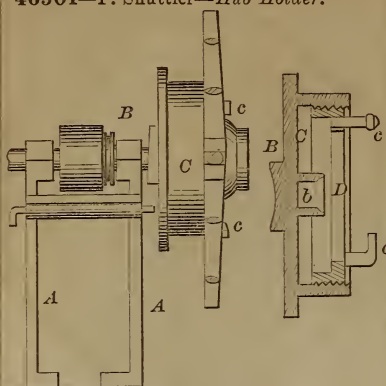
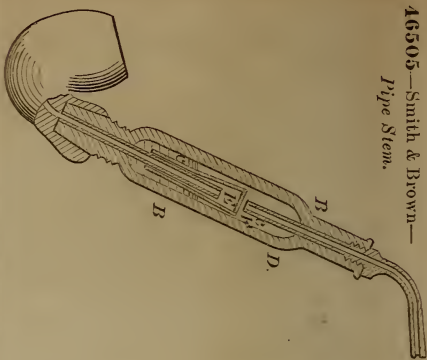
46497—W. Race—*Skate.*



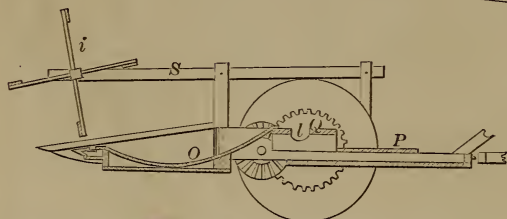
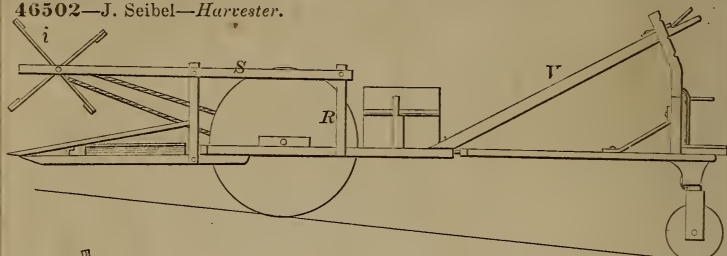
46500—H. Rugee—*Heat Radiator.*



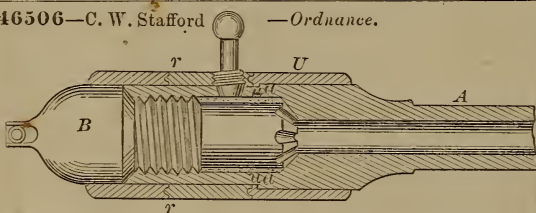
46501—P. Shuttler—Hub Holder.

46505—Smith & Brown—
Pipe Stem.

46502—J. Seibel—Harvester.

46507—W. B. S. Tyler—Flexible
Gas Tubing.

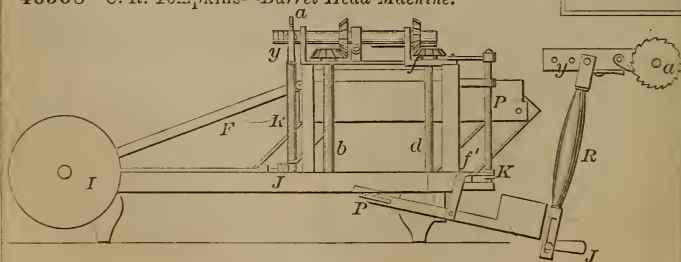
46506—C. W. Stafford —Ordnance.



46504—J. W. Smith—Rivet.



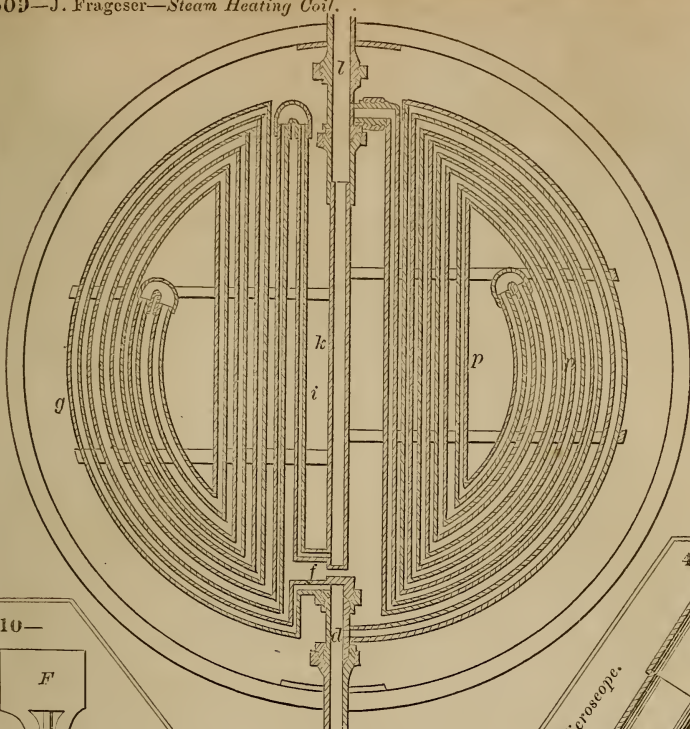
46508—C. R. Tompkins—Barrel Head Machine.



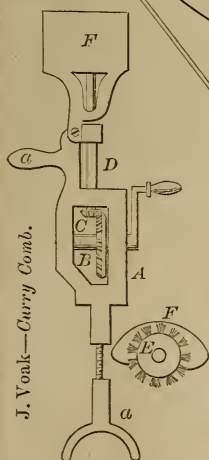
46503—C. H. Shute—Photographic Plate Holder.



13509—J. Frageser—Steam Heating Coil.

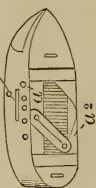


46510—

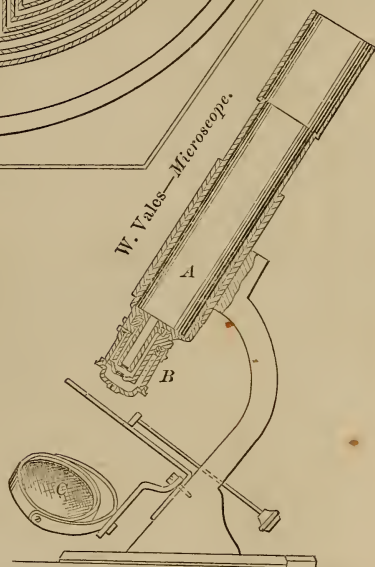


J. Vonk—Curry Comb.

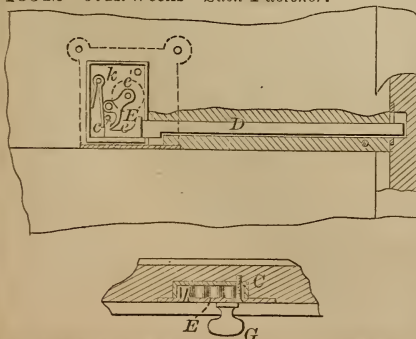
46513—W. Wetling—Sewing Machine.



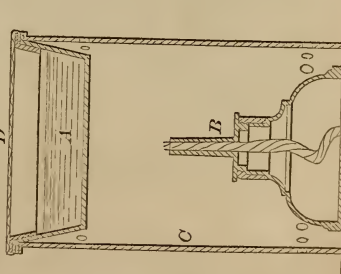
46511—



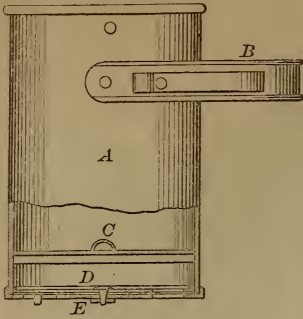
46512—J. H. Weeks—Sash Fastener.



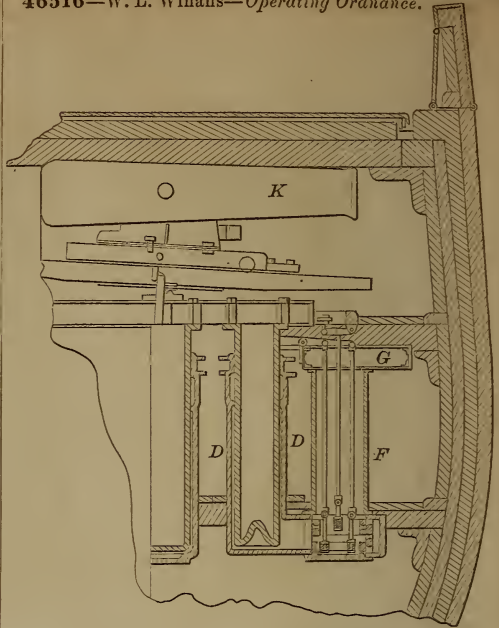
46514—B. Wilder—For Softening Gum on Labels, &c.



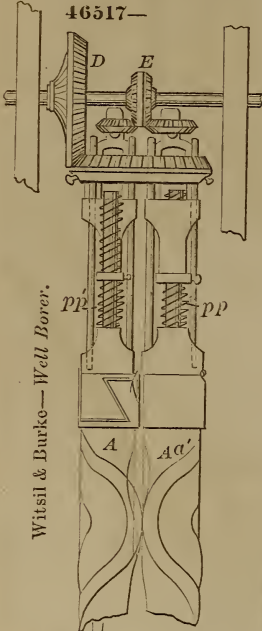
46515—J. M. Wiltzie—Fertilizer Distributor.



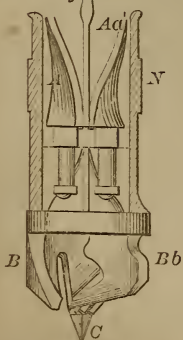
46516—W. L. Winans—Operating Ordnance.



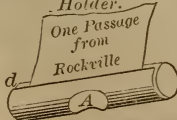
46517—



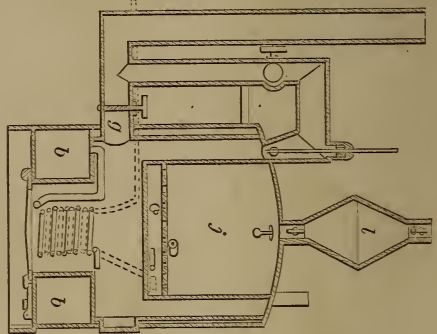
Witsil & Burke—Well Borer.



46519—V. G. Arnold—Ticket Holder.

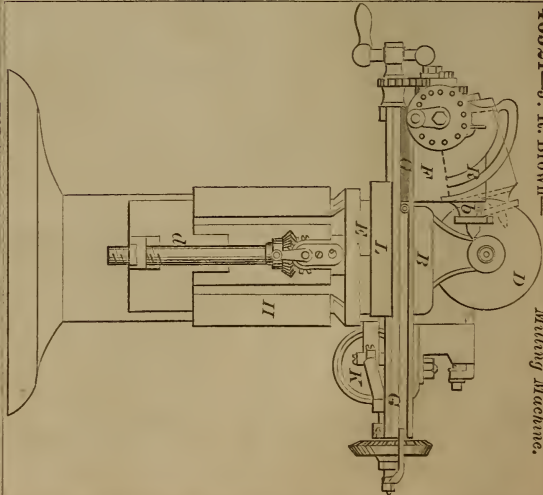


46520—H. Bradford—Loading and Desulfurizing Ore.

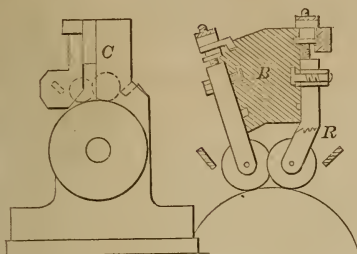


46521—J. R. Brown—

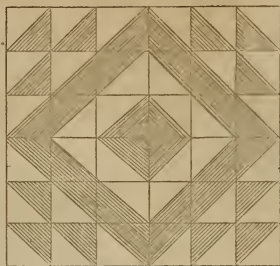
Milling Machine.



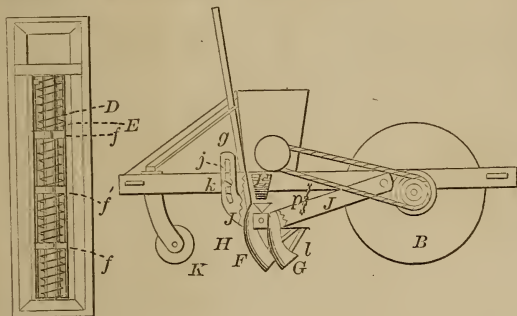
46522—E. E. Clarke—*Pasteboard Box.*



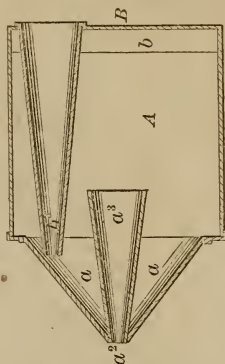
46525—T. F. Harrold—*Toy Block.*



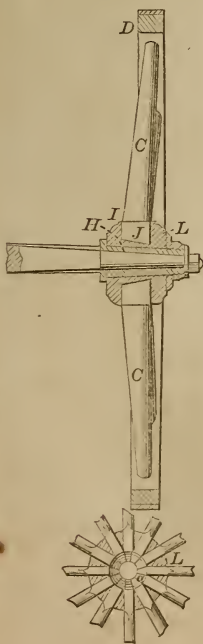
46523—J. W. H. Doubler—*Grain Drill.*



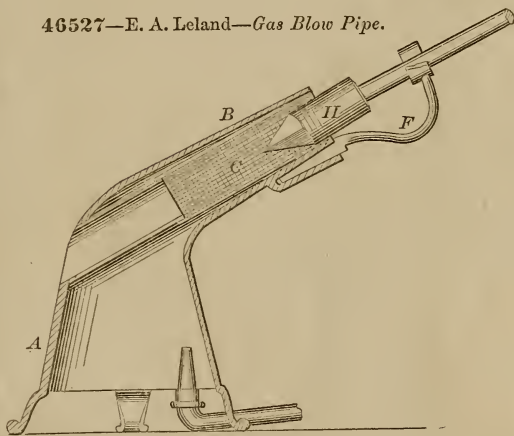
46526—J. R. Harrington—*Tugere.*



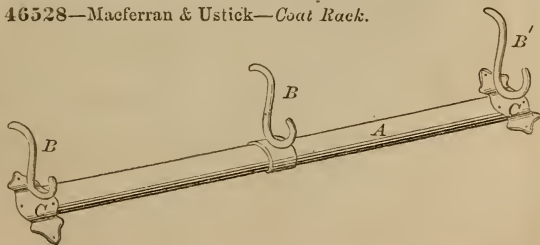
46524—J. Goodman—*Carriage Wheel.*



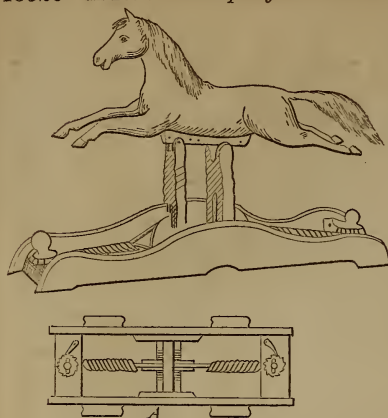
46527—E. A. Leland—*Gas Blow Pipe.*



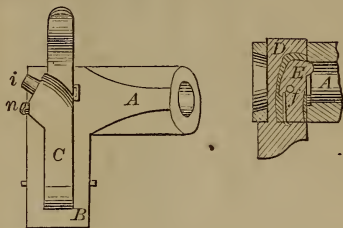
46528—Macferran & Ustick—*Coat Rack.*



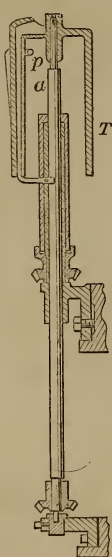
46529—H. F. Metzler—Spring Horse.



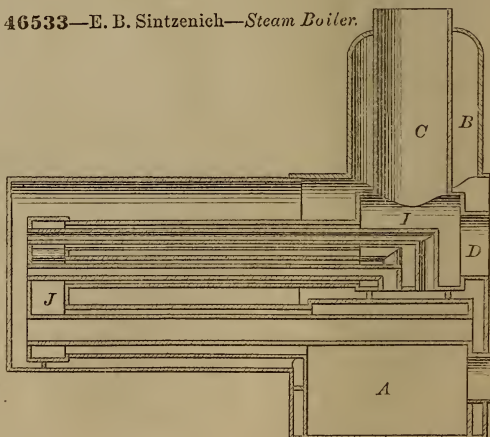
46532—J. Kidder—Fire Arm.



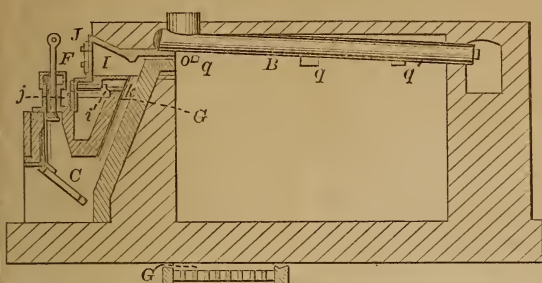
46535—

46530—
T. Mayor—
Roving Frame.

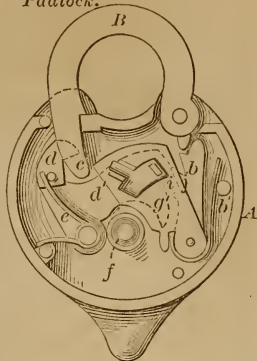
46533—E. B. Sintzenich—Steam Boiler.

46534—C. St. John—
Lamp Shade Holder.

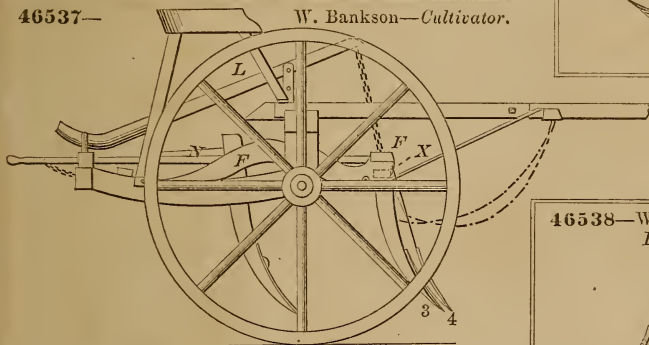
46536—C. Schinz—Gas Furnace.



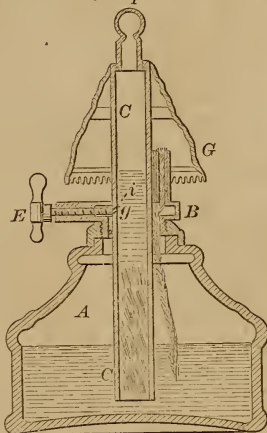
46539—W. Bohannon—Padlock.



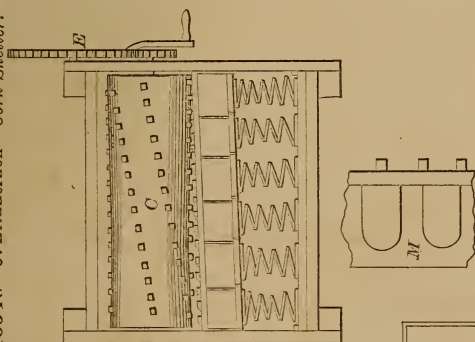
46537—W. Bankson—Cultivator.



46538—W. W. Batchelder—Lamp.



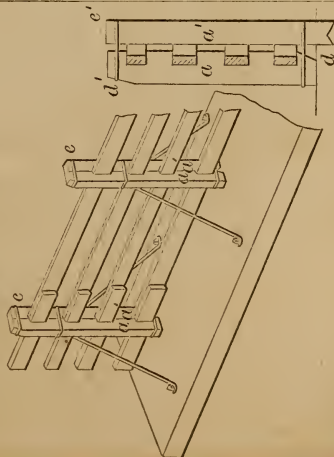
46540—J. Brinkerhoff—Corn Sheller.



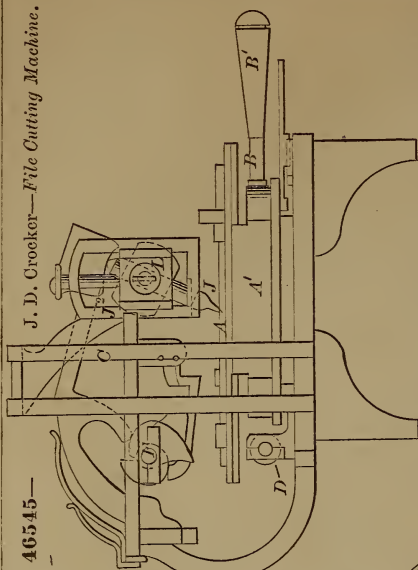
46542—C. E. Carpenter—Fire Alarm.



46541—Brown & Shannon—Fence.

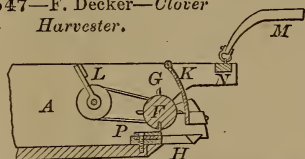


J. D. Crocker—File Cutting Machine.

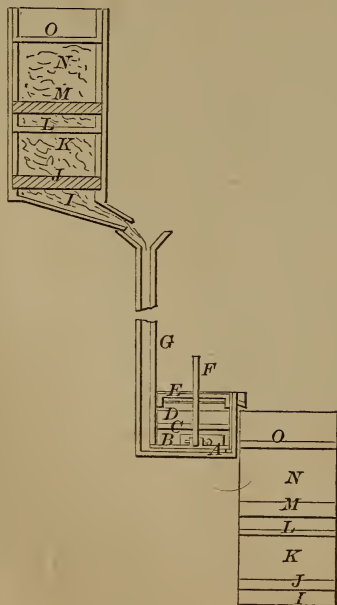


46545—

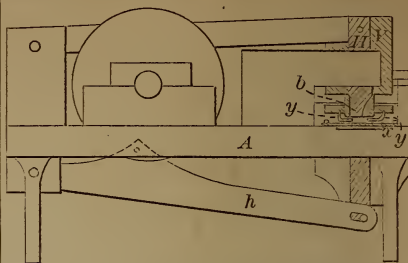
46547—F. Decker—Clover Harvester.



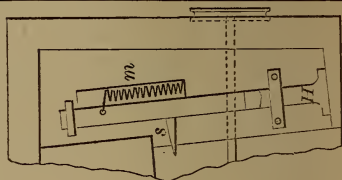
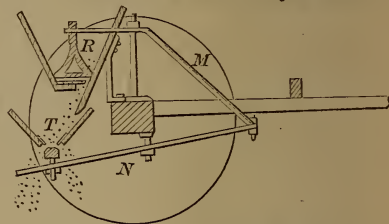
46546—A. B. Crosby—Ore Amalgamator.



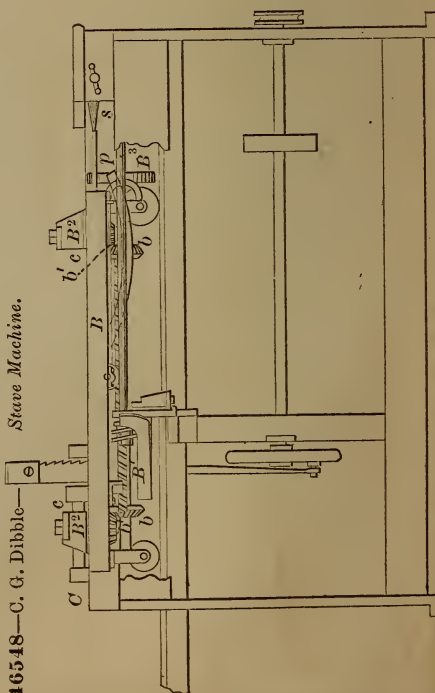
46543—J. B. Clarke—Tags.



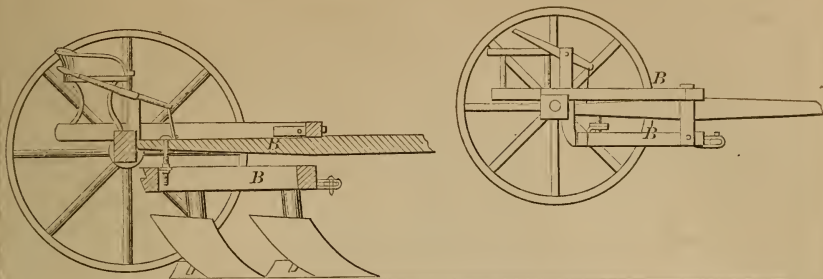
46544—Cook & Webb—Seeding Machine.



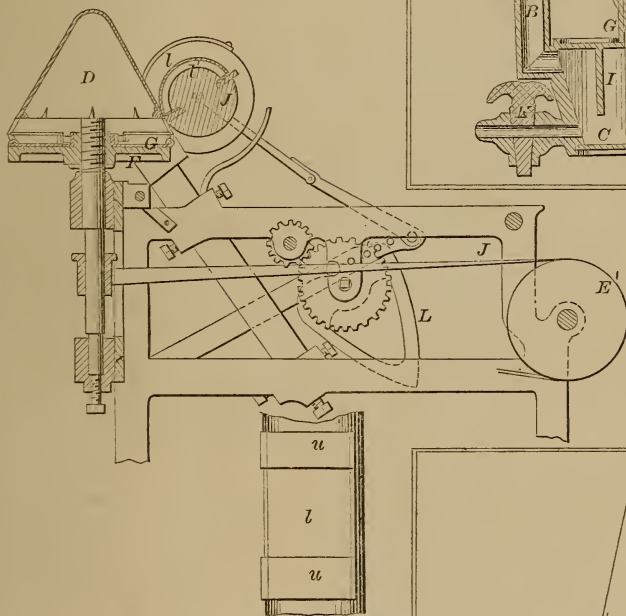
46548—C. G. Dibble—Stave Machine.



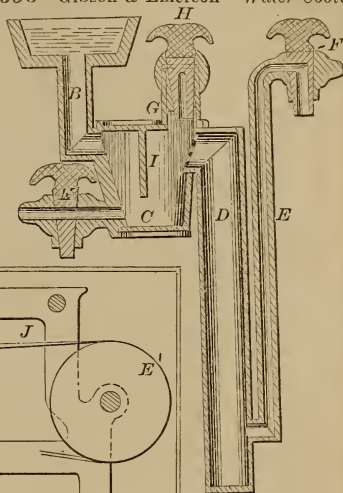
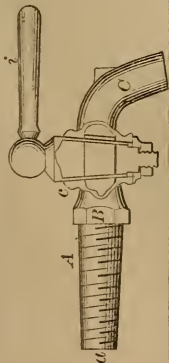
46550—Durant & Buckley—*Wheel Cultivator.*



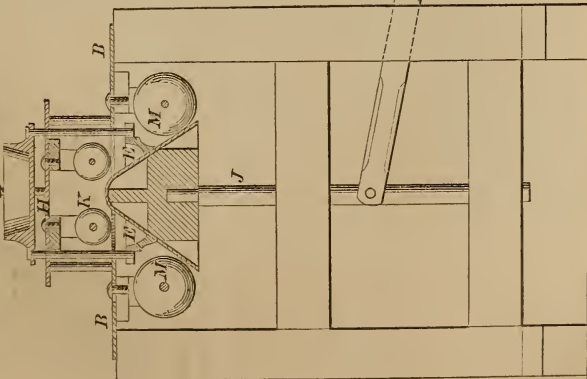
46552—R. Eickemeyer—*Hat Bodies.*

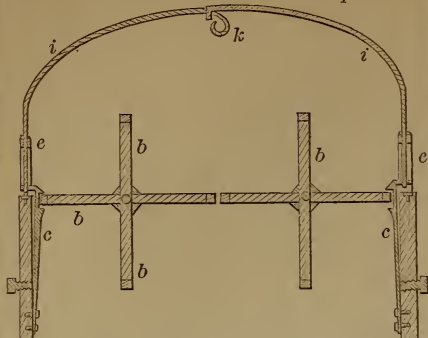
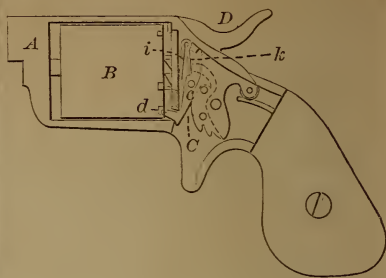
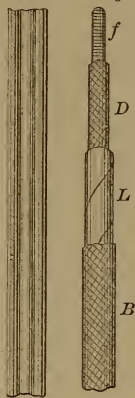
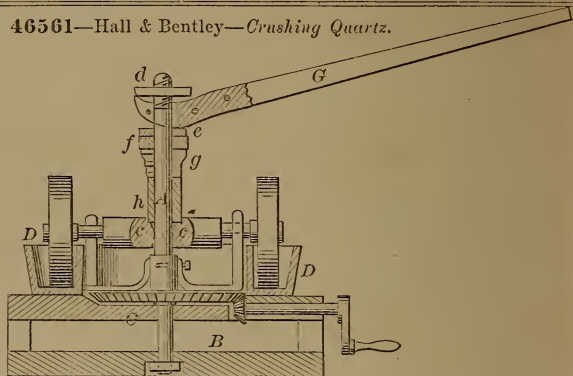
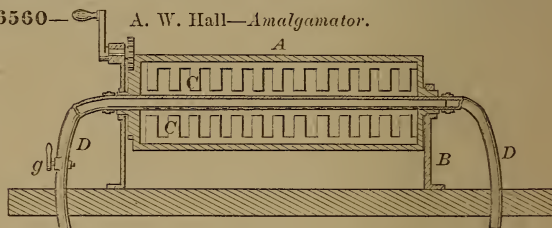
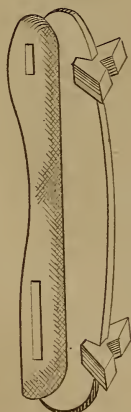
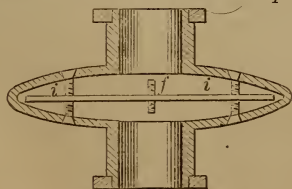
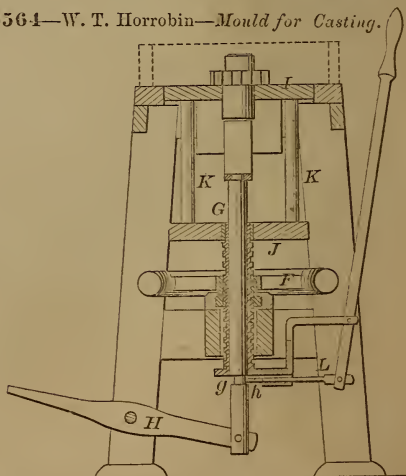


46556—Gibson & Emerson—*Water Cooler*.

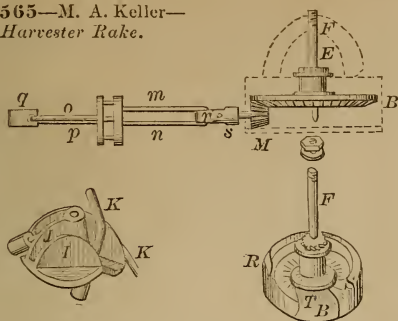
46555—J. D. Fravy—*L'Annet.*

46553—R. Eickemeyer— \square Hat Bodies.

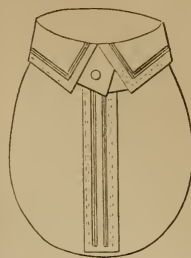


46557—W. S. Gitchell—*Animal Trap.*46562—P. Haughian—*Fire Arm.*46558—E. P. Gleason—*Flexible Tubing.*46561—Hall & Bentley—*Crushing Quartz.*46560—A. W. Hall—*Amalgamator.*46563—Hook & Darlington—*Skate Feet.*46559—C. Glidden—*Hot Blast Pipe.*46564—W. T. Horrobin—*Mould for Casting.*

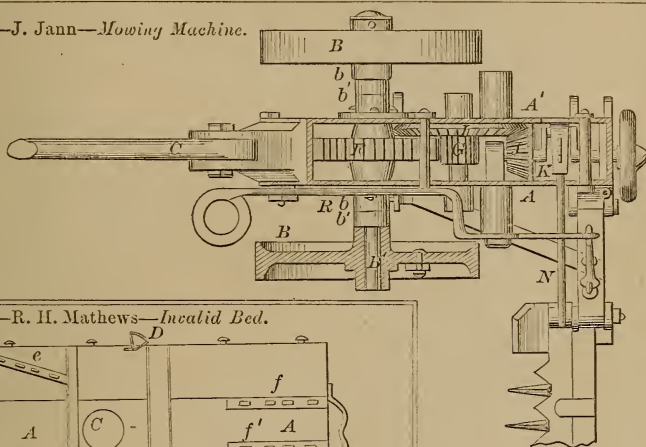
46565—M. A. Keller—*Harvester Rake.*



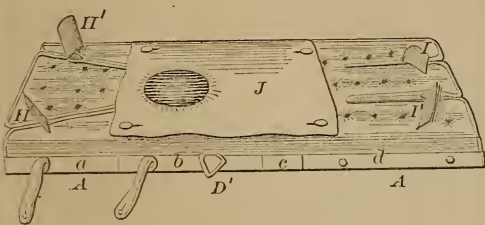
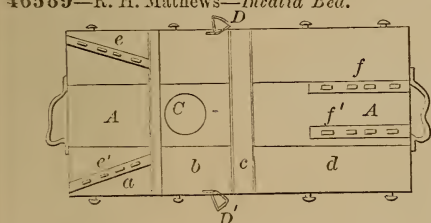
46567—W. E. Lockwood—*Paper Shirt Bosom.*



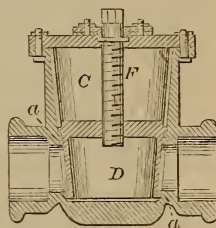
46566—J. Jann—*Mowing Machine.*



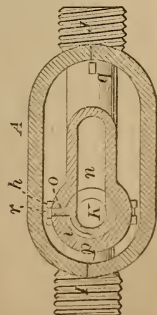
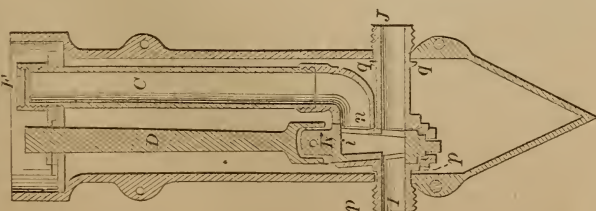
46569—R. H. Mathews—*Invalid Bed.*

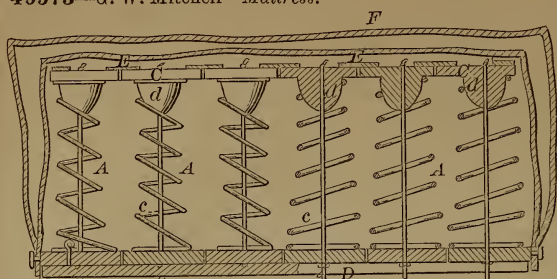
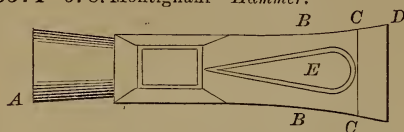
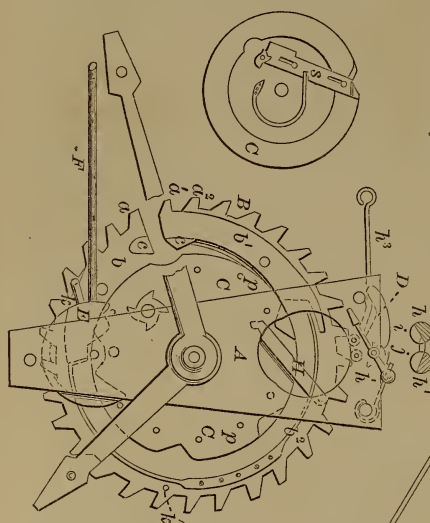
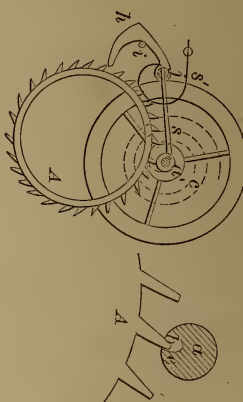
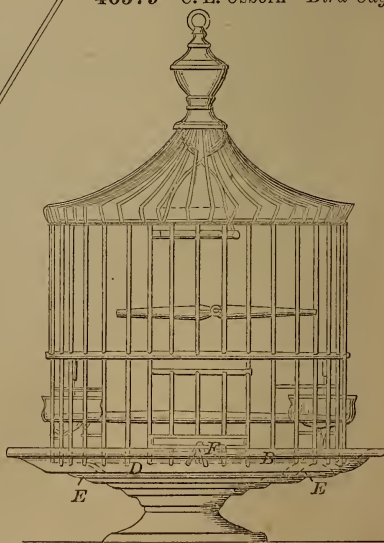
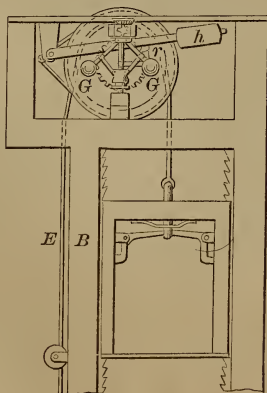


46571—J. McClelland—*Stop Valve.*

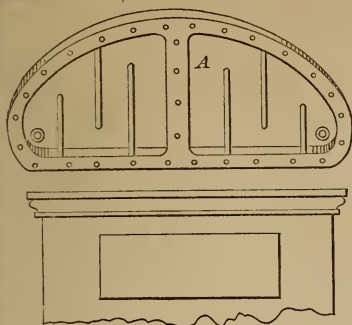


46572—J. McClelland—*Street Washer.*

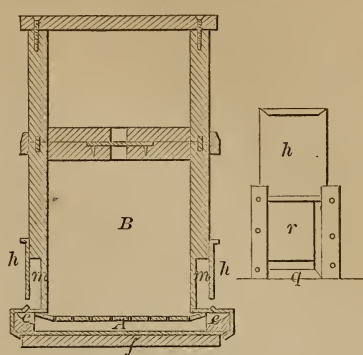


46573—G. W. Mitchell—*Mattress.*46575—C. L. Morehouse—*Ladies' Under Garment.*46574—J. O. Montignani—*Hammer.*46577—Don J. Mozart—*Calendar Clock.*46576—Don J. Mozart—*Time Piece.*46579—C. L. Osborn—*Bird Cage.*46580—C. R. Otis—*Hoisting Apparatus.*

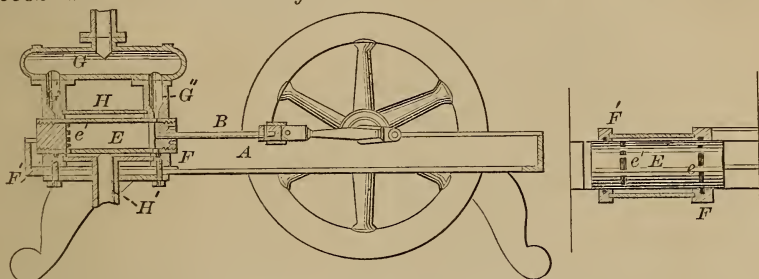
46581—G. T. Palmer—*Soda Water Cooler.*



46584—H. Penoyer—*Bee Hive.*



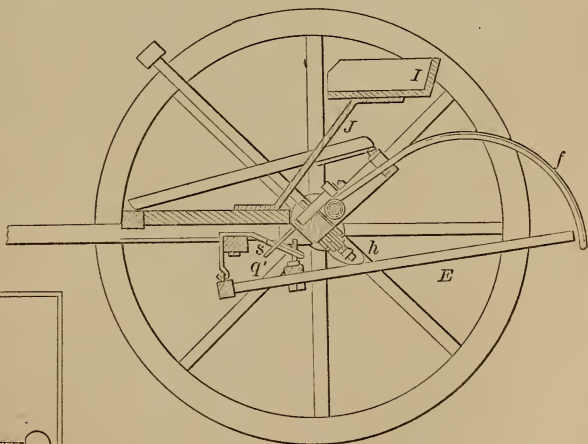
46582—D. H. Pardlins—*Steam Engine.*



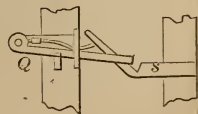
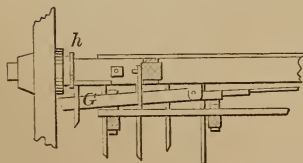
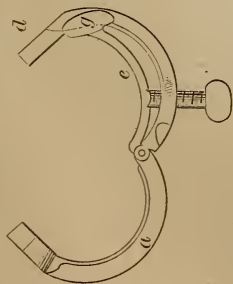
46586—
Pileghar & Sholhorn—
Oil Cup.



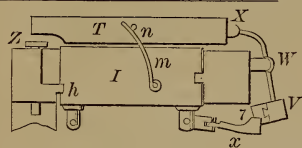
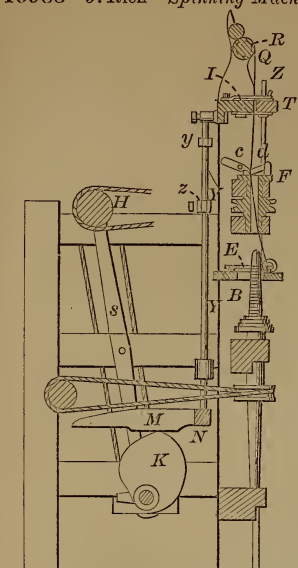
46583—J. Pennypacker—*Horse Rake.*



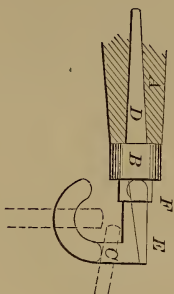
46587—T. K. Reed—*Bag Fastener.*



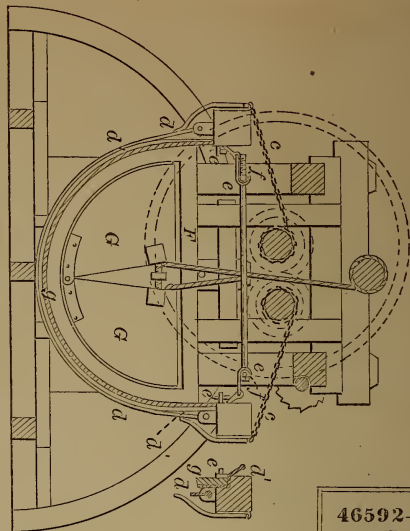
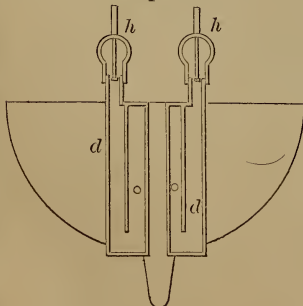
46588—J. Rich—Spinning Machine.



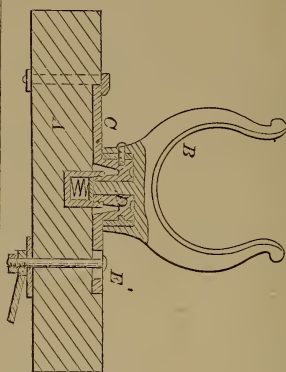
46590—J. E. Shaw—Tree Lock.



46593—D. E. Some—Ventilating Ships.



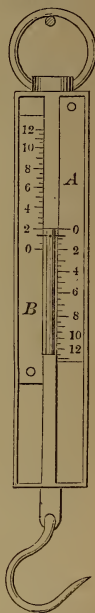
46591—Smith & Swope—Wood Bending Machine.



46589—W. Sage—Row Lock.

46592—

W. B. Snyder—Spring Balance.



46594—D. E. Some—Condensing Apparatus.

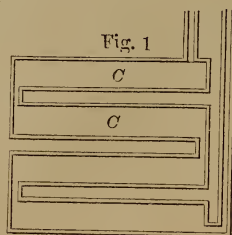


Fig. 1

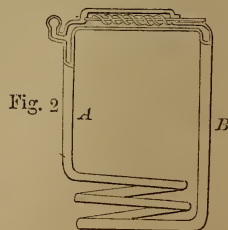
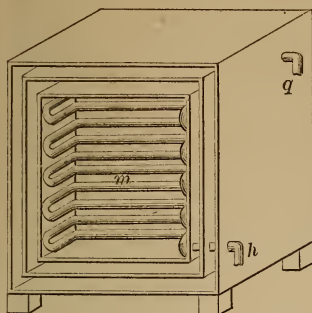
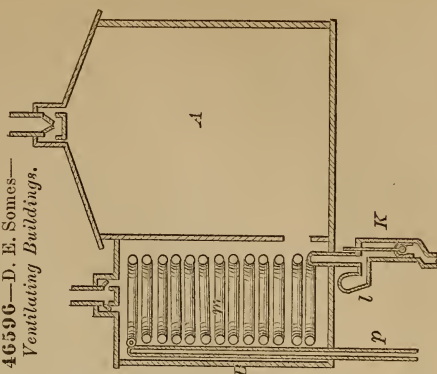


Fig. 2

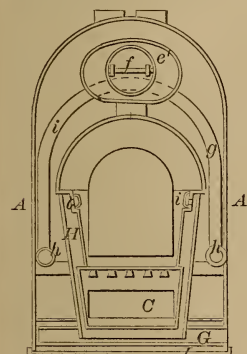
46595—D. E. Somes—Cooling Houses, &c.



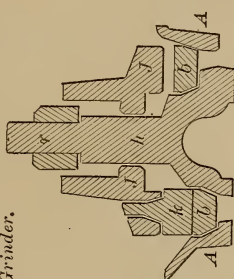
46596—D. E. Somes—Ventilating Buildings.



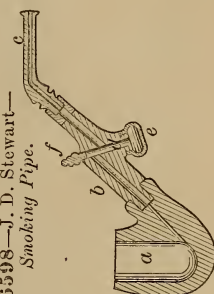
46601—G. W. Wilson—Furnace.



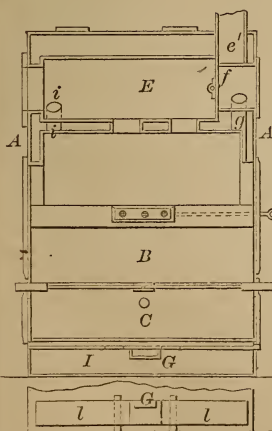
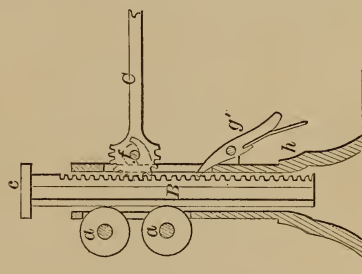
46597—A. P. Stephens—Percussion Grinder.



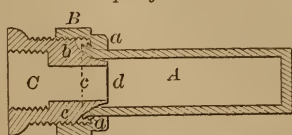
46598—J. D. Stewart—Smoking Pipe.



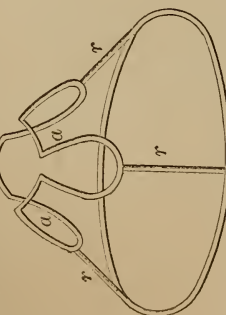
46599—Wm. K. Thornton—Lifting Jack.



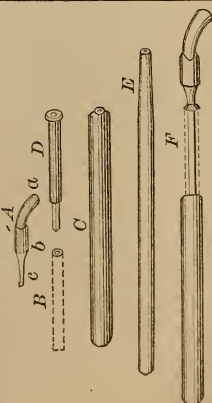
46603—W. N. Abbott—Pipe Couplings.

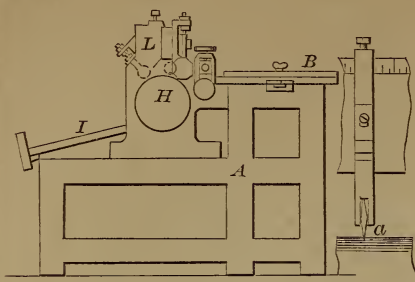
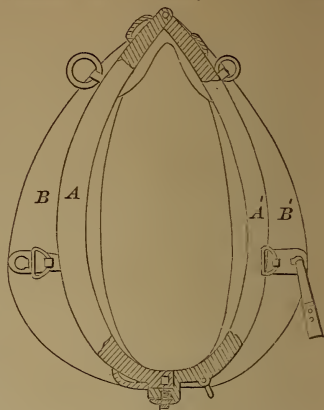
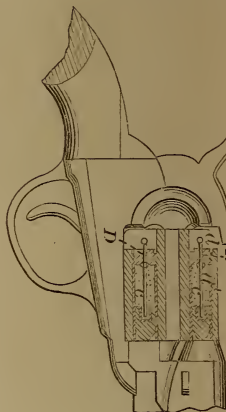
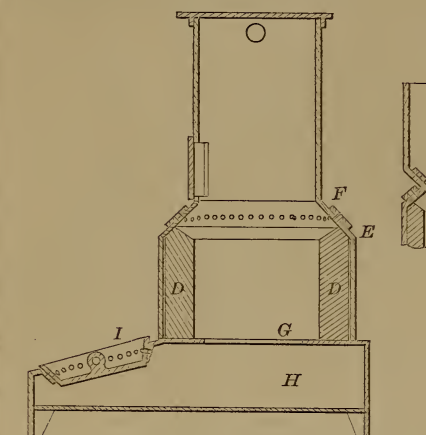
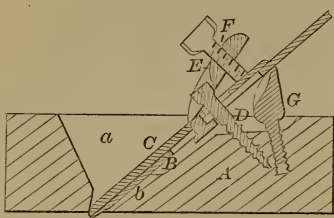
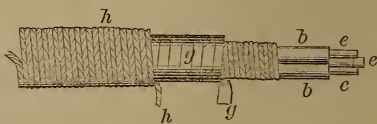
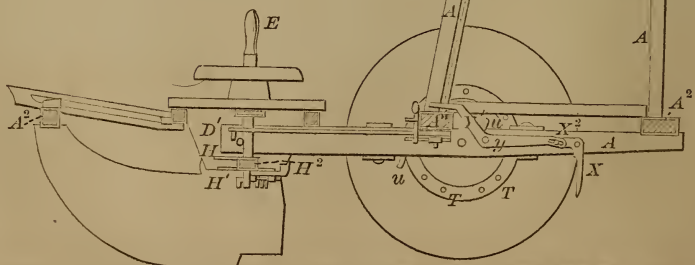


46600—Wellman & Greenough—Lamp Shade.

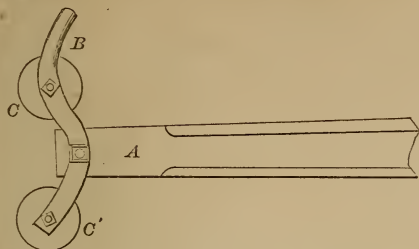


46602—B. Wood—Dental Instruments.

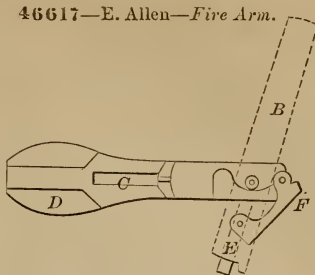


46604—E. E. Clarke—*Pasteboard Boxes.*46606—M. Killacley—*Horse Collar.*46605—H. Howson—*Gas Burning Stove.*46612—C. E. Snider—*Fire Arm.*46614—W. H. Taber—*Bench Plane*46613—D. H. Southworth—*Telegraph Cable.*46615—G. W. Brown—*Seed Planter.*

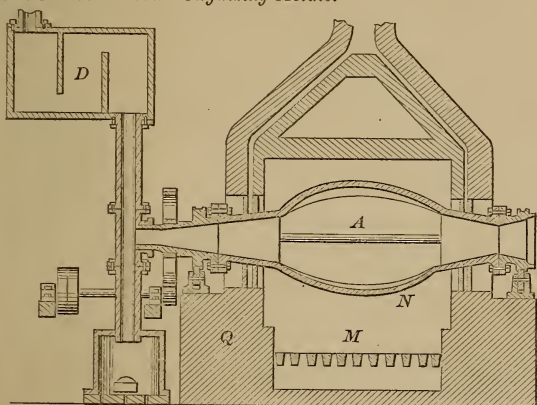
46616—R. Alden—Tree Protector.



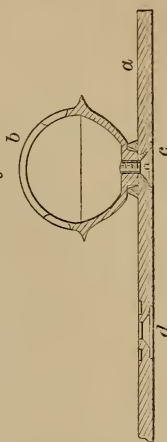
46617—E. Allen—Fire Arm.



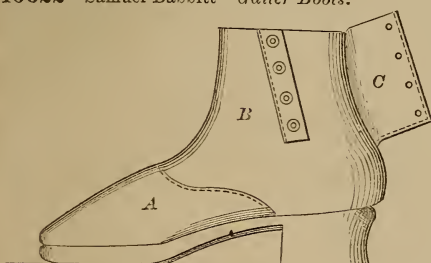
46618—W. Atwood—Oxydizing Metals.



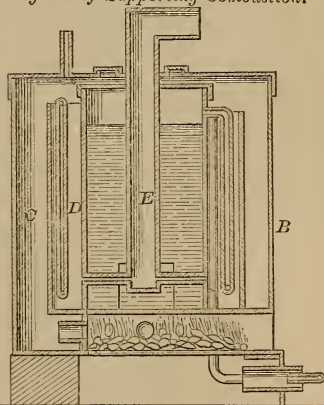
46623—W. E. Barton—Sleigh Bells.



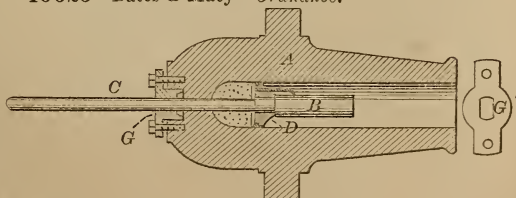
46622—Samuel Babbitt—Gaiter Boots.



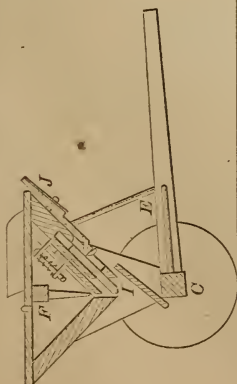
46624—Basset & Norfolk—System of Supporting Combustion.



46625—Bates & Macy—Ordnance.

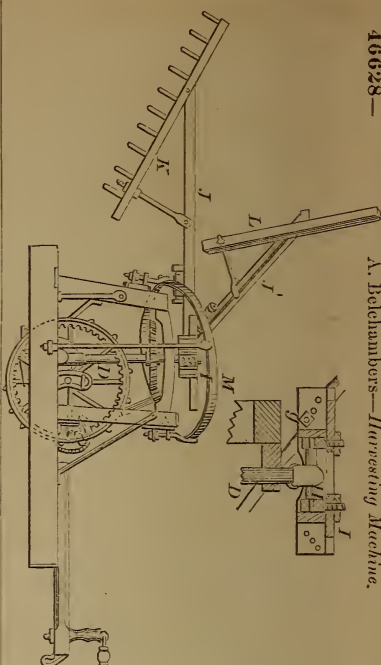


46626—W. N. Bates—Seeding Machine.

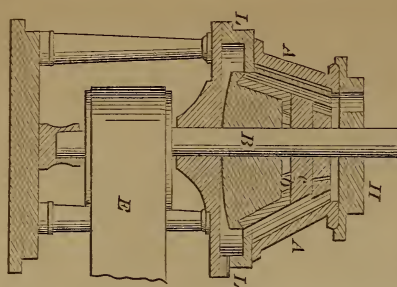


46628—

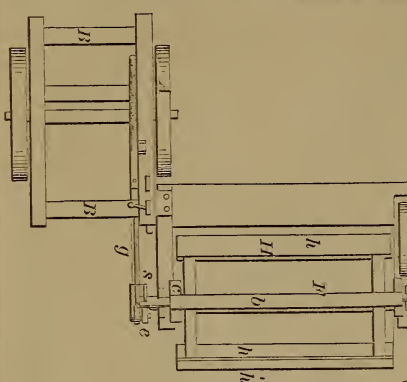
A. Belchambers—Harvesting Machine.



46627—E. P. Baugh—Hone Mill.

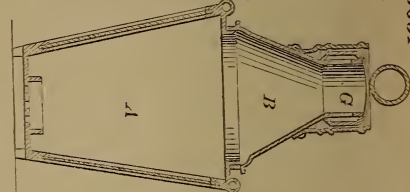


46630—L. W. Bill—Reaping Machine.

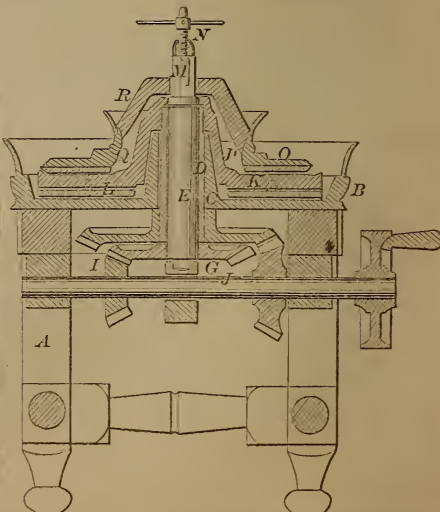


46631—

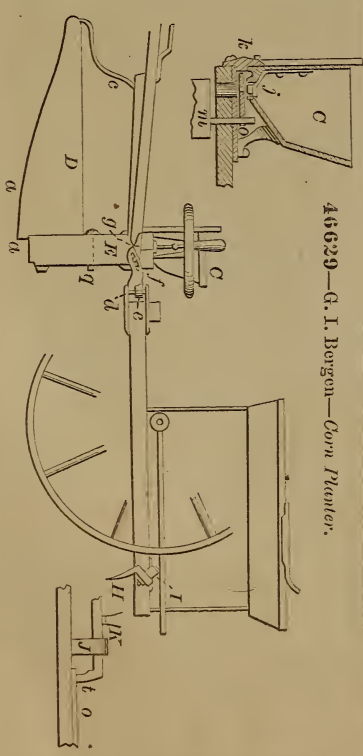
J. Binney—Street Lamp.



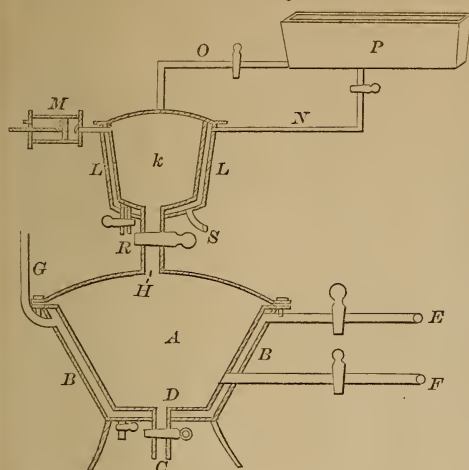
46632—H. Bolthoff—Ore Amalgamator.



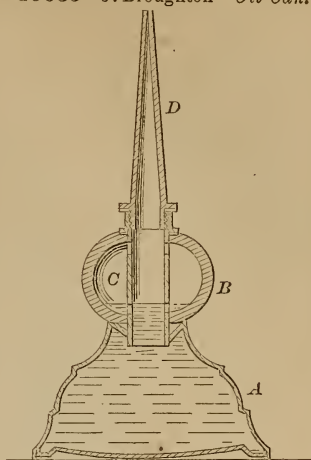
46629—G. I. Bergen—Corn Planter.



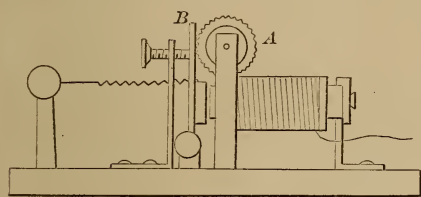
46633—F. Braggins—*Distilling Petroleum, &c.*



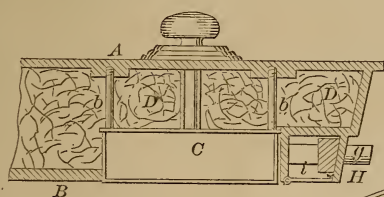
46635—J. Broughton—*Oil Can.*



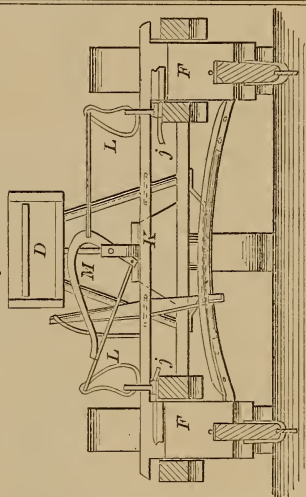
46639—J. J. Clark—*Telegraph.*



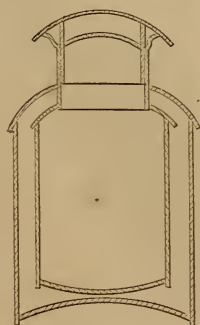
46634—M. Briggs—*Safes.*



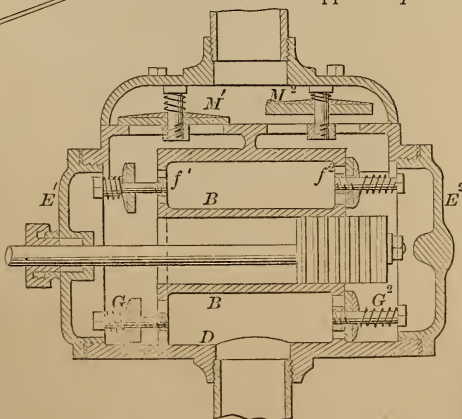
46637—W. E. Chesney—*Corn Planter.*



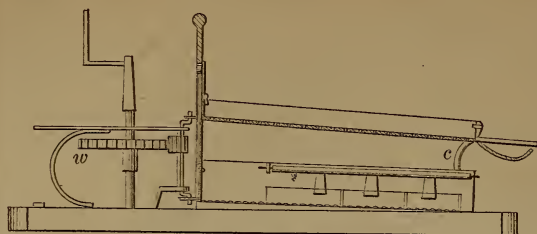
46640—M. M. Clark—*Milk Can.*



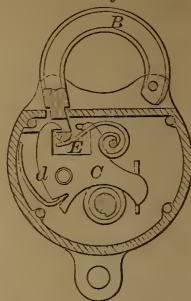
46638—M. R. Clapp—*Pump.*



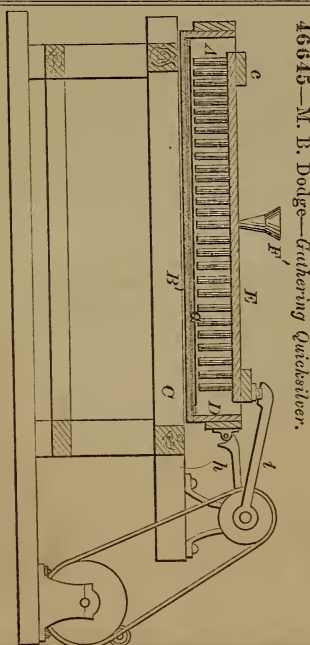
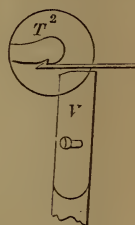
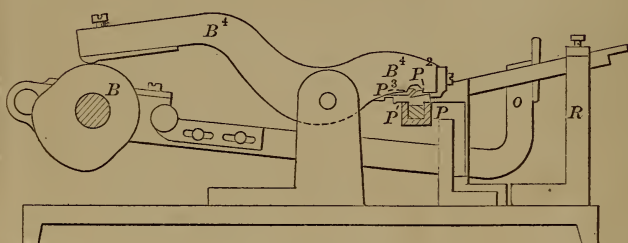
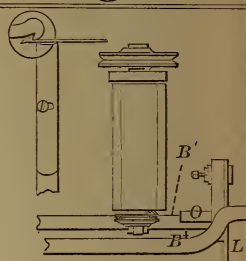
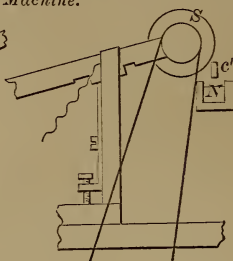
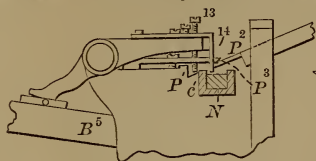
46641—N. D. Clark—Gold Washer.



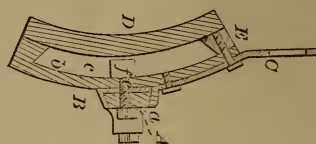
46643—E. Coyle—Padlock.



46644—C. O. Crosby—Fish Hook Machine.

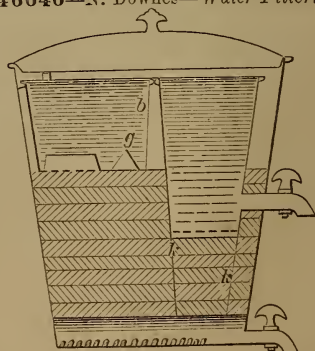


46645—M. B. Dodge—Fishing Quicksilver.

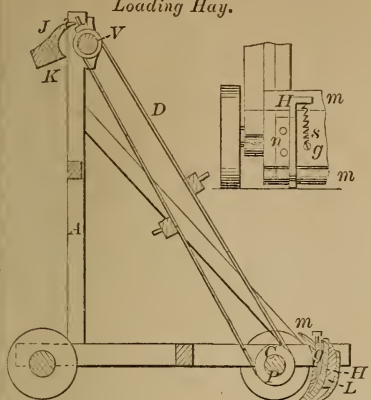


46642—J. M. Collins—Car Brake.

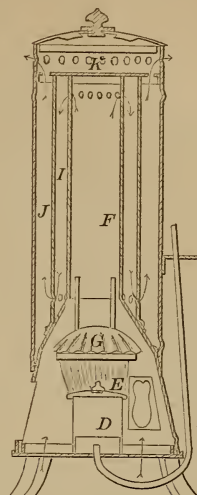
46646—N. Downes—Water Filter.



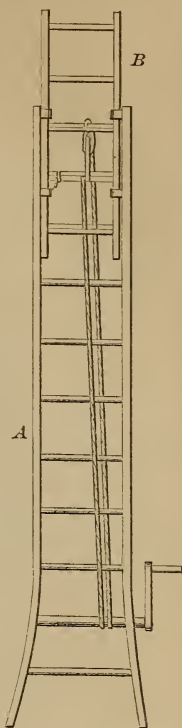
46647—W. A. Duncan—*Raking and Loading Hay.*



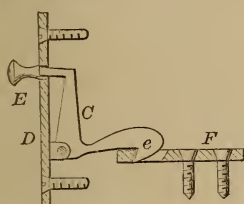
46651—L. Erving—*Gas Stove.*



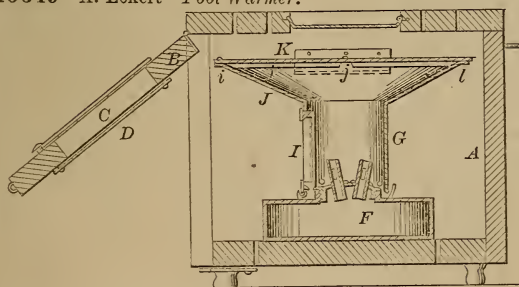
46648—C. Eaton—*Extension Ladder.*



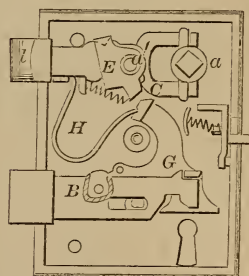
46653—Fordick & Dakin—*Door Latch.*



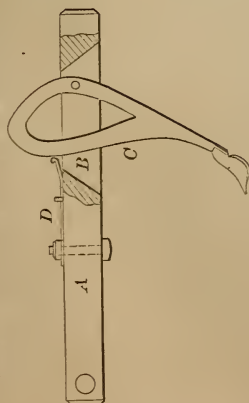
46649—A. Eckert—*Foot Warmer.*



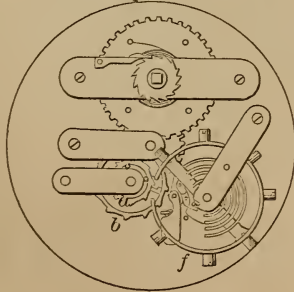
46650—H. H. Elwell—*Latch.*



46654—H. Francisco—*Cultivator Teeth.*



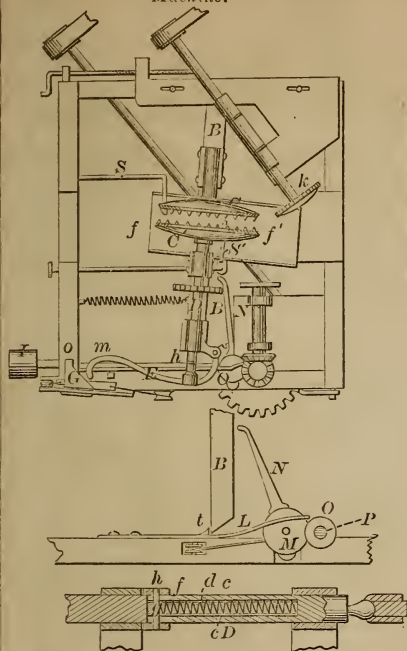
46652—C. Fasoldt—*Chronometer Escapement.*



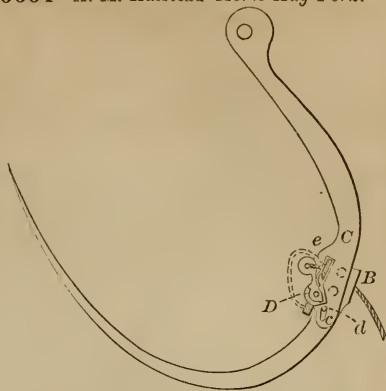
46655—*Freeland & Ward—Volute Spring.*



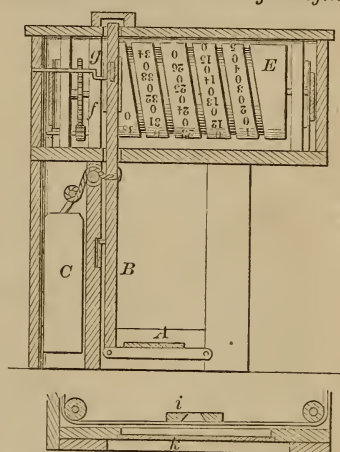
46661—J. Greenwood—Barrel Head Machine.



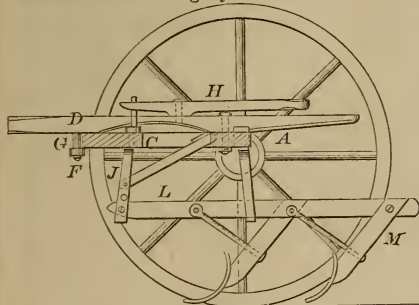
46664—A. M. Halstead—Horse Hay Fork.



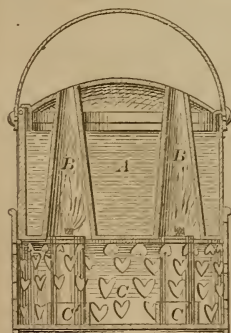
46663—E. Hackett—Passenger Register.



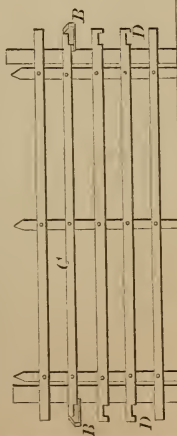
46666—L. D. Haughey—Cultivator.



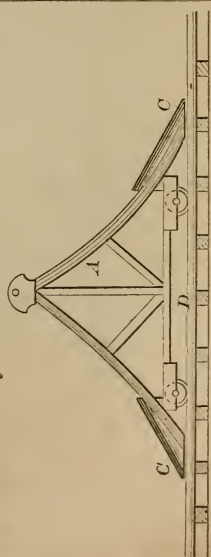
46665—W. A. Hancock—Portable Heater for Liquids.

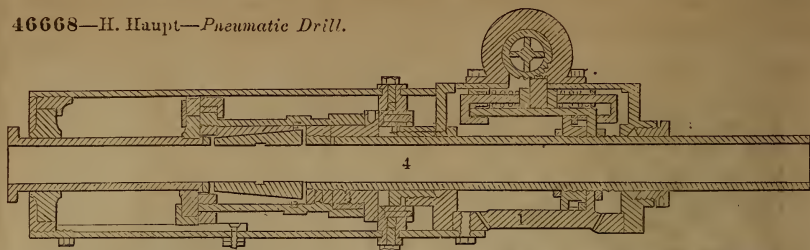
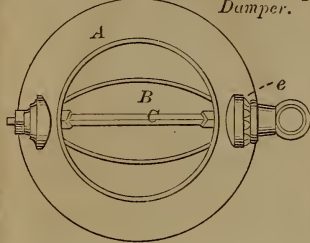


46667—J. Healy—Gate.



46662—C. B. Guy—Collision Brake.



46668—H. Haupt—*Pneumatic Drill.*46670—J. E. Howard—*Stove Pipe Damper.*

46672—W. Huston—

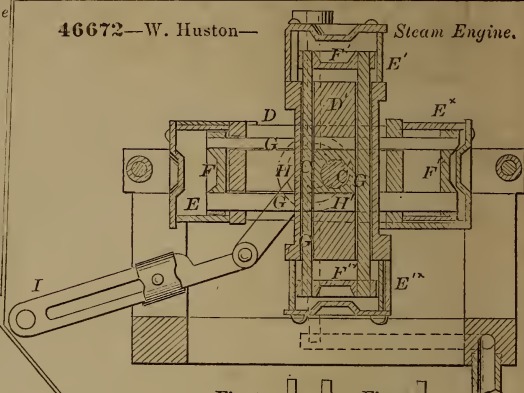
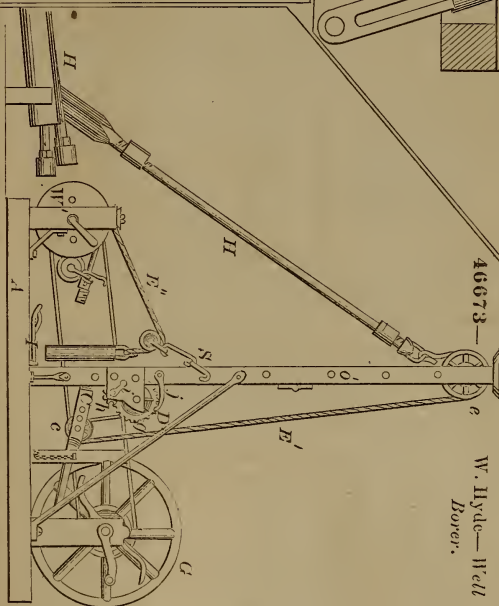
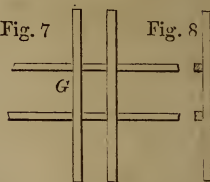
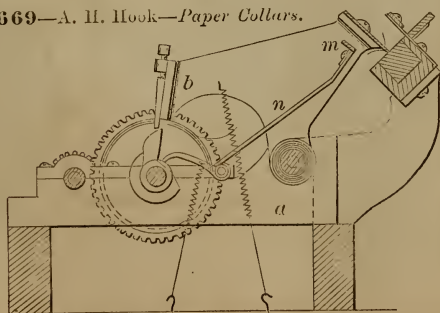
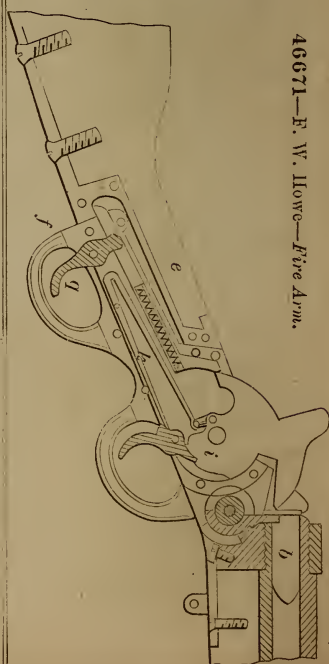
Steam Engine.

Fig. 7

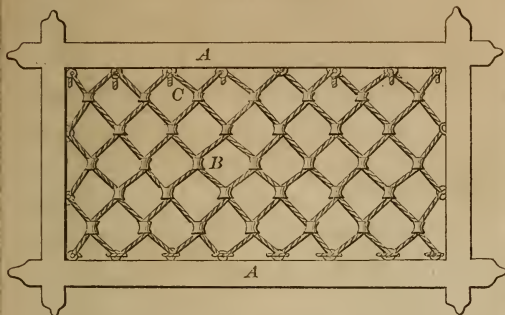
Fig. 8



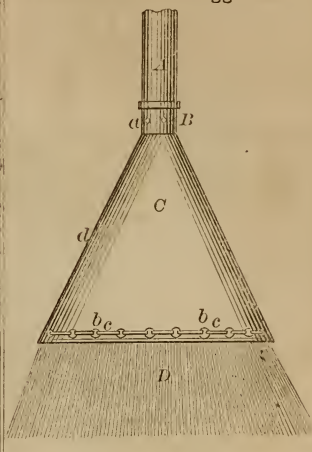
46673—

W. Hyde—*Well
Dorer.*46669—A. H. Hook—*Paper Collars.*46671—F. W. Howe—*Fire Arm.*

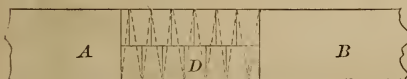
46674—H. Hyres—*Elastic Fabric.*



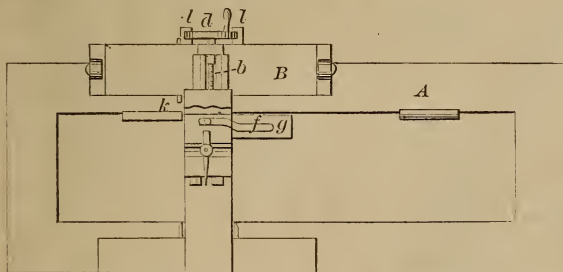
46678—O. W. Kellogg—*Broom.*



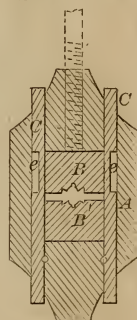
46679—L. J. Knowles—*Weaving Button Holes.*



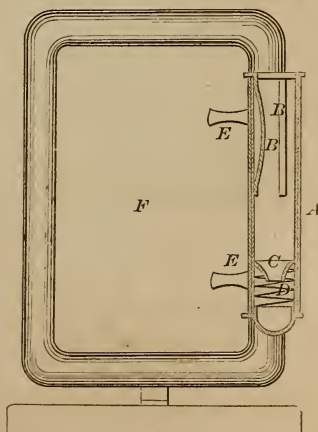
46677—J. L. Johnston—*Engine Lathe.*



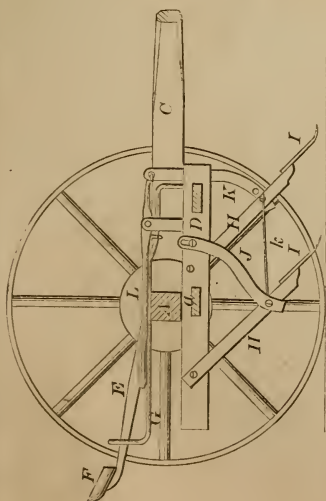
46676—Jennings & Sweet—*Screw Plates.*

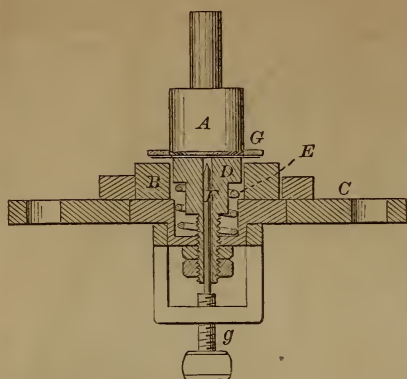
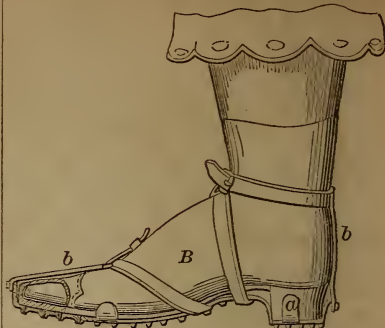
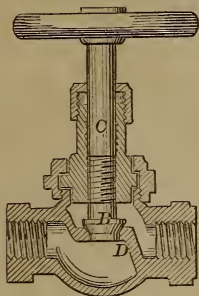
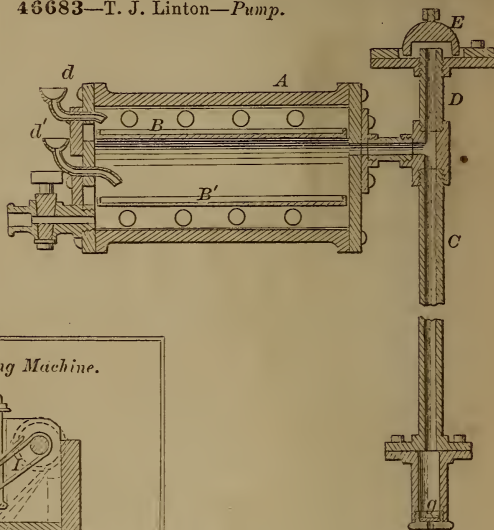
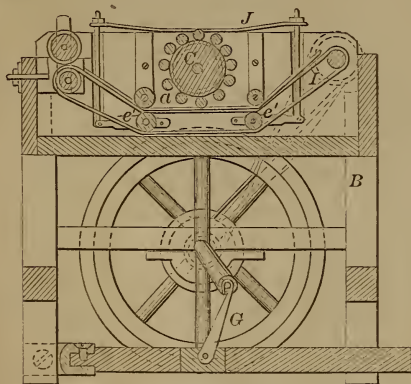
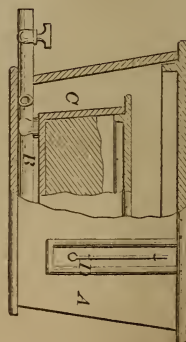


46680—J. Lake—*Whip Socket.*

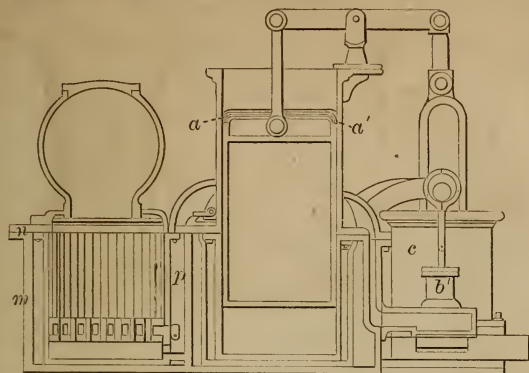


46675—Ingals & Wright—*Cultivator.*

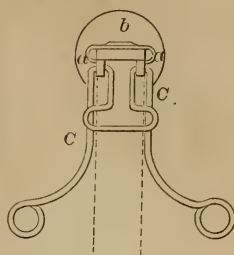


46681—W. K. Lewis—*Punch and Die.*46682—T. J. Linton—*Ice Sandal.*46685—F. Lunkheimer—*Globe Valve Cock.*46683—T. J. Linton—*Pump.*46686—Lansing Marble—*Washing Machine.*46687—A. A. Marks—*Artificial Leg.*46688—H. S. McKean—*Trough for raising Dough.*

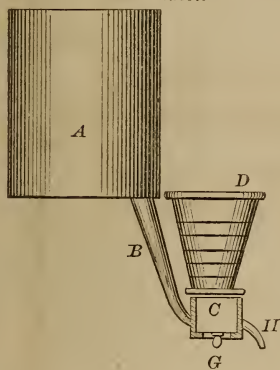
46689—H. Messer—Hot Air Engine.



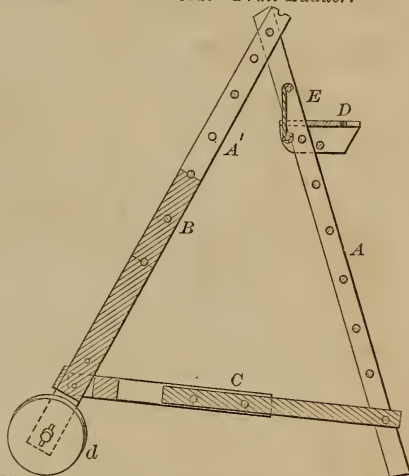
46691—Moore & Cole—Lamp Burner.



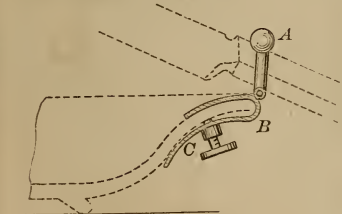
46690—H. Mitchell—Measure, Funnel, and Faucet.



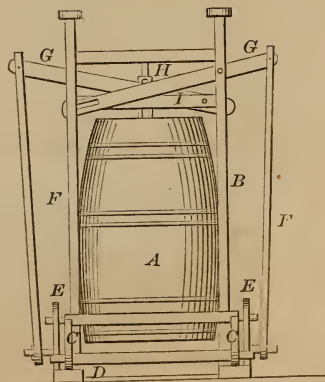
46694—A. W. Olds—Fruit Ladder.



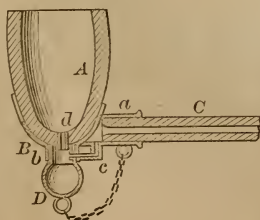
46692—Morse & Herriek—Spoon Holder.



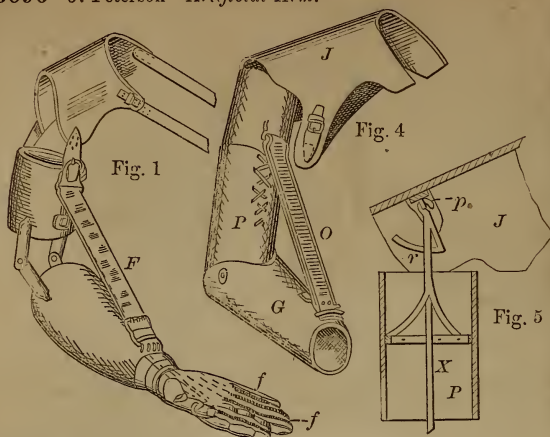
46695—J. N. Pease—Churn.



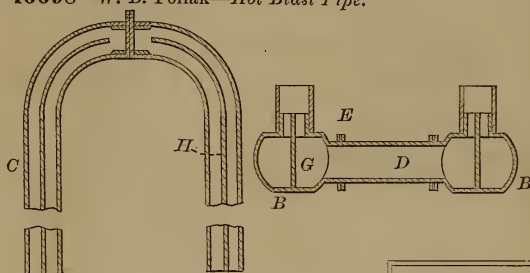
46693—R. Nagler—Tobacco Pipe.



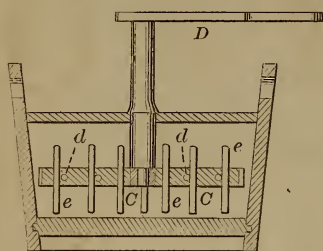
46696—J. Peterson—Artificial Arm.



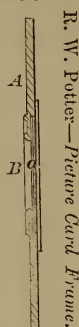
46698—W. B. Pollak—Hot Blast Pipe.



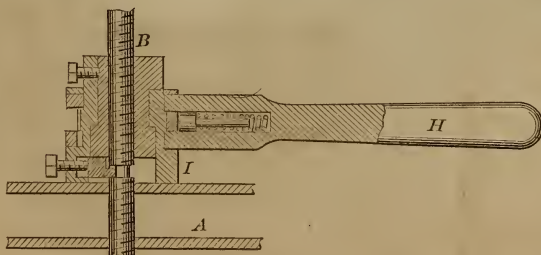
46701—W. Price—Clothes Washer.



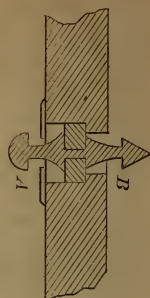
46699—



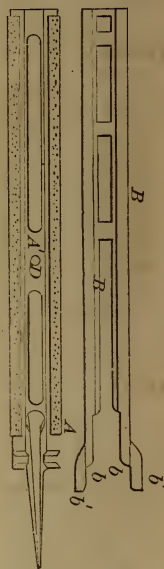
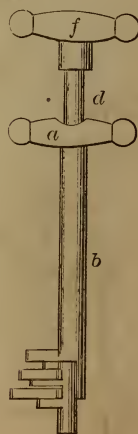
46703—J. Renshaw—Tool for Cutting off Bolts.



46697—J. C. Plummer—Spring Catch.



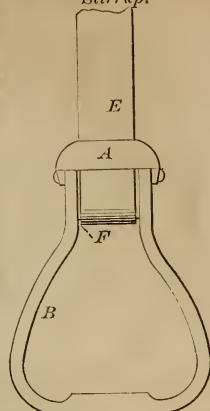
46702—J. & A. W. Redding—Sand Paper Holder.

46704—E. Reynolds—
Lock Key.

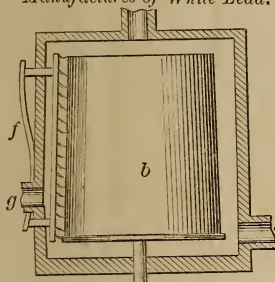
46705—H. A. Reynolds—*Velocipede.*



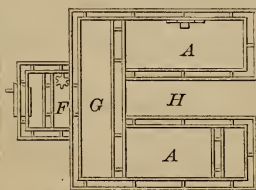
46712—C. W. Saladee—*Stirrup.*



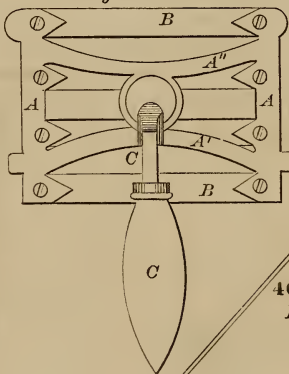
46706—Archer & Rice—*Manufactures of White Lead.*



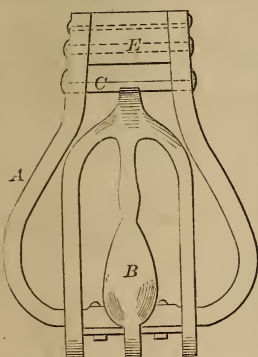
46707—E. C. Roberts—*Preserving Fruit, &c.*



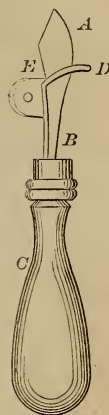
46710—C. W. Saladee—*Curry Comb.*



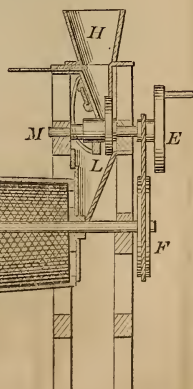
46711—C. W. Saladee—*Stirrup.*



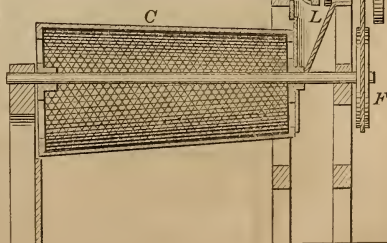
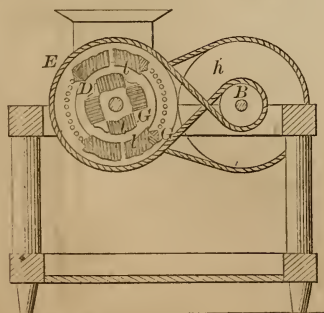
46709—C. A. Ruff—*Can Opener.*



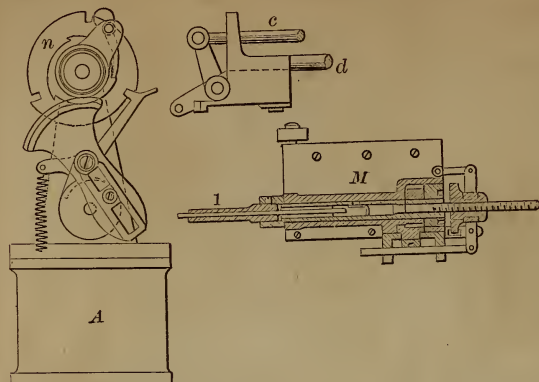
46713—J. G. Savage—*Pulverizing Sand, &c.*



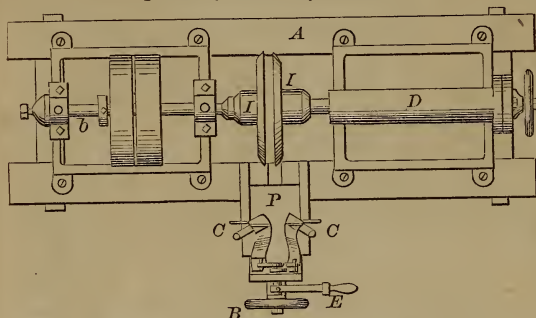
46708—C. E. Rowan—*Cleaning Rice, &c.*



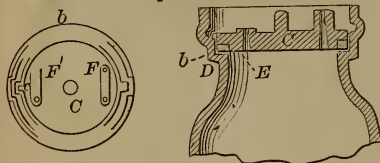
46714—W. & C. Seilers—Machine for Rifling Gun Barrels.



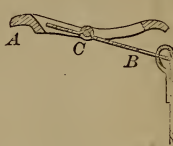
46717—E. P. Spaulding—Heads of Casks.



46720—J. J. Squire—Fruit Jar.



46719—L. A. Sprague—Lever Buckle.



46718—T. S. Sperry—Skirt Wire.

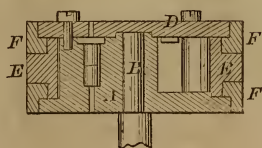


N. Staffard—Lock.

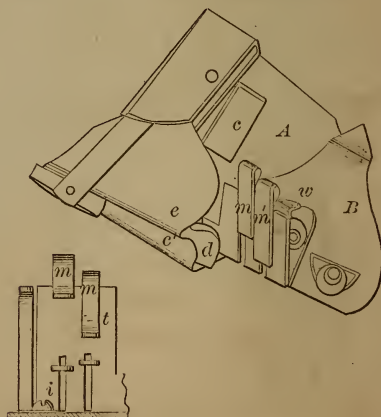


46721—

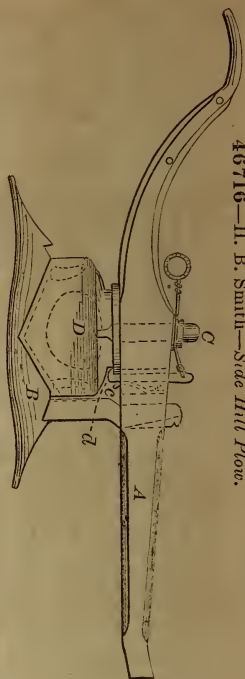
46723—A. J. Stevens—Piston Packing.



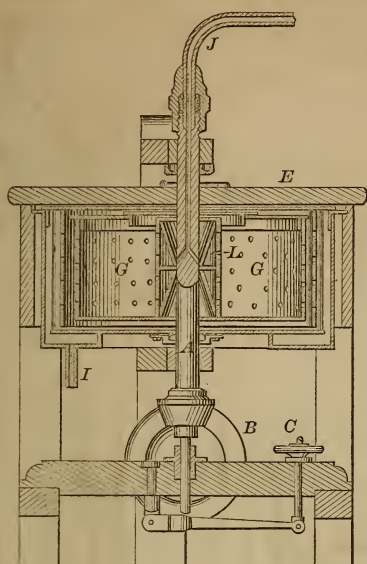
46722—J. P. Steiner—Sewing Machine.



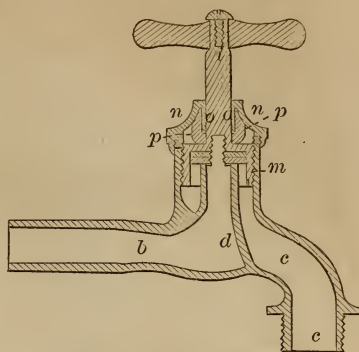
46716—H. B. Smith—Side Hill Plow.



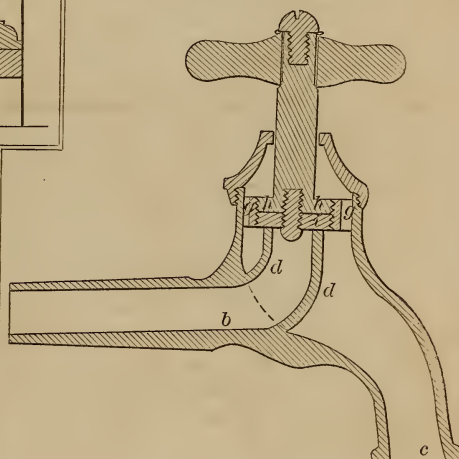
46724—R. Stewart—Filtering Liquids, &c.



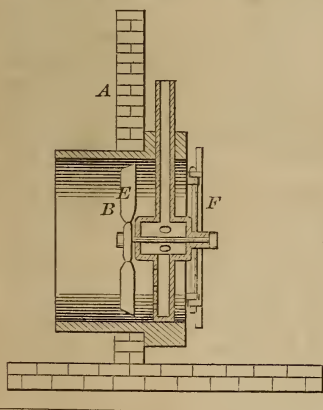
46726—H. Strater, Jr.—Faucet.



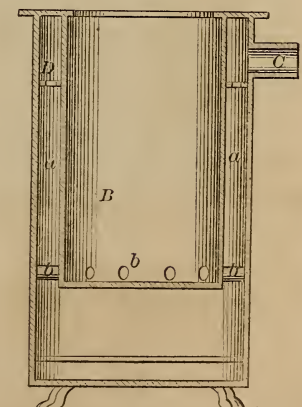
46727—H. Strater, Jr.—Faucet.



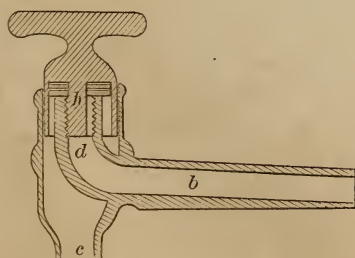
46725—Strange & Huntley—Boiler Furnace.



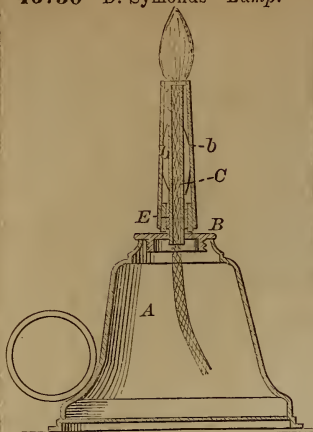
46729—T. L. Sturtevant—Stove.



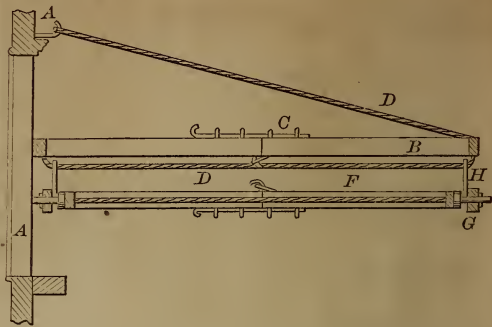
46728—H. Strater, Jr.—Faucet.



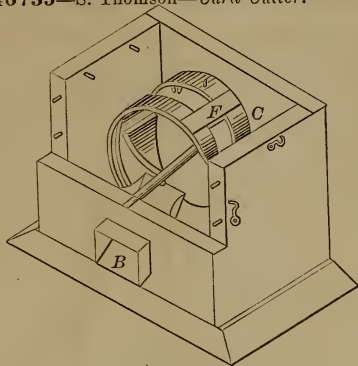
46730—D. Symonds—Lamp.



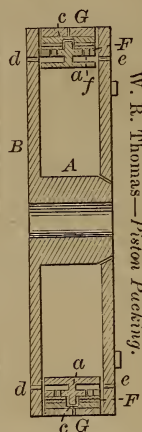
46731—E. B. Taylor—Clothes Dryer.



46735—S. Thomson—Curd Cutter.

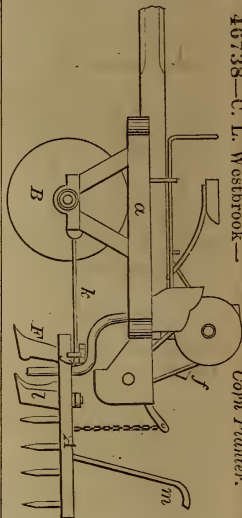


46733—

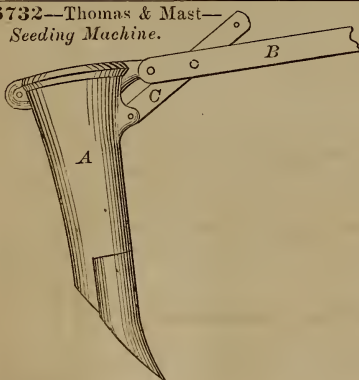


W. R. Thomas—Piston Packing.

46738—C. L. Westbrook—



Corn Planter.

46732—Thomas & Mast—
Seeding Machine.

46739—A. Westcott—Churn.

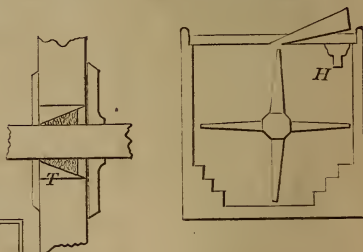
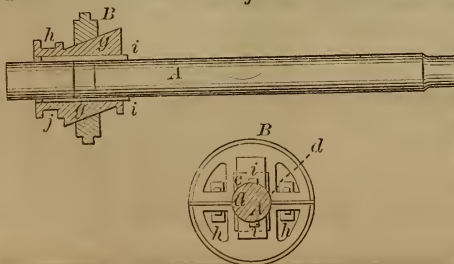


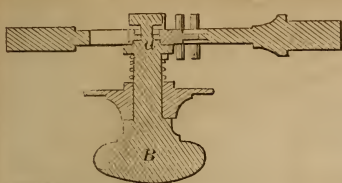
Fig. 5

Fig. 3

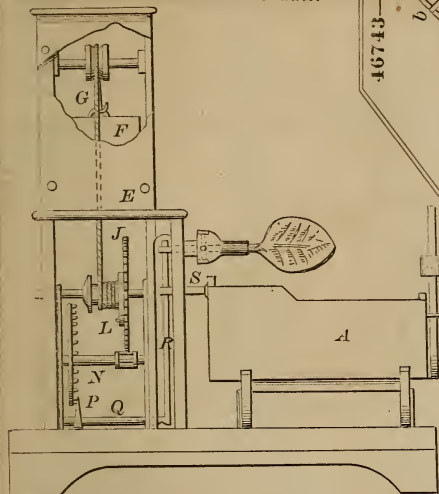
46737—D. F. Walker—Adjustable Eccentric.



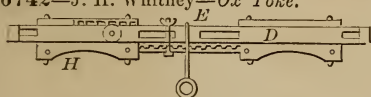
46740—A. Westcott—*Bolts for Doors.*



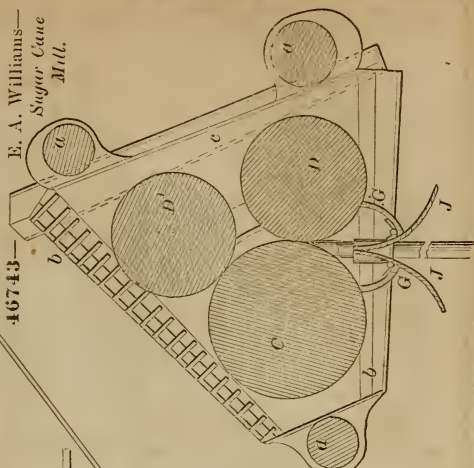
46744—H. G. Williams—*Cradle*.



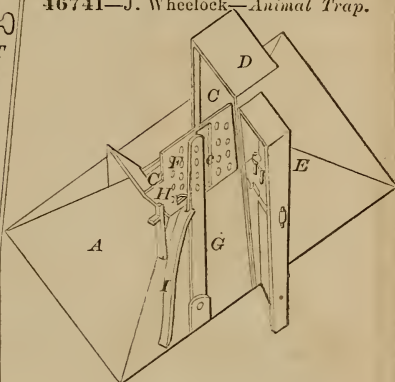
46742—J. H. Whitney—*Ox Yoke.*



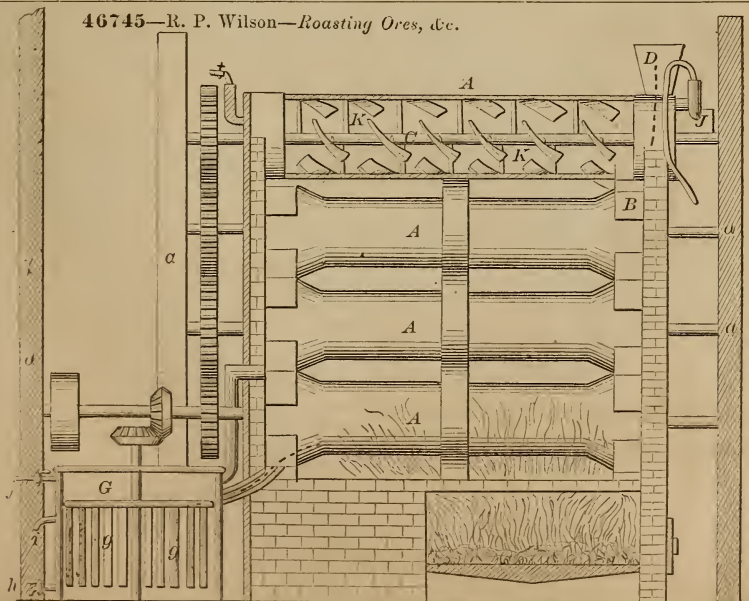
E. A. Williams—
Sugar Cane
Mill.



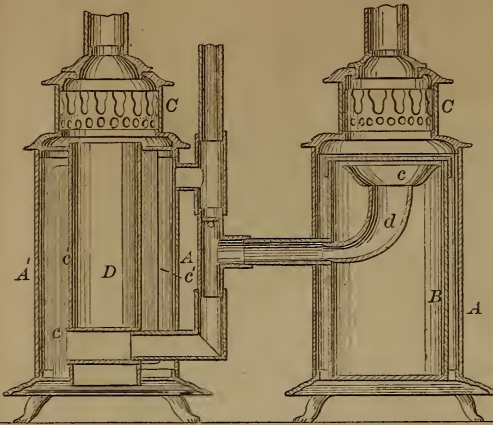
46741—J. Wheelock—Animal Trap.



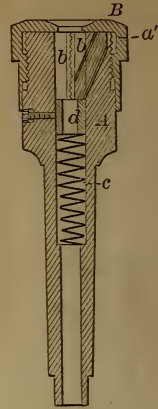
46745—R. P. Wilson—*Roasting Ores, &c.*



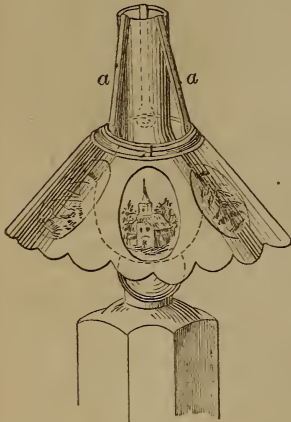
46746—A. Worley—Stove.



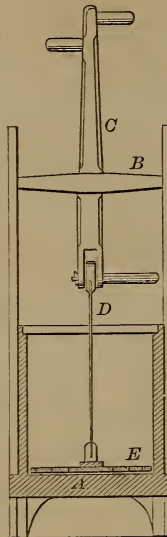
46747—T. H. Worrall—Chuck.



46748—H. Zahn—Lamp Shade.



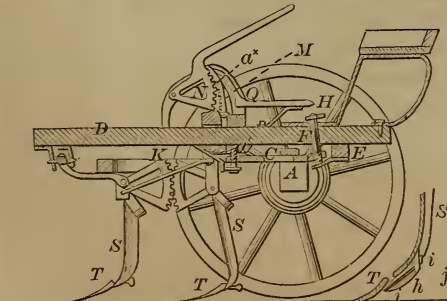
46749—J. Aiken—Churn.



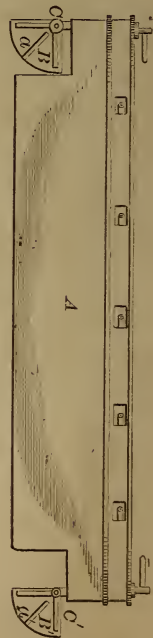
46751—C. Bradfield—Clothes Rack.



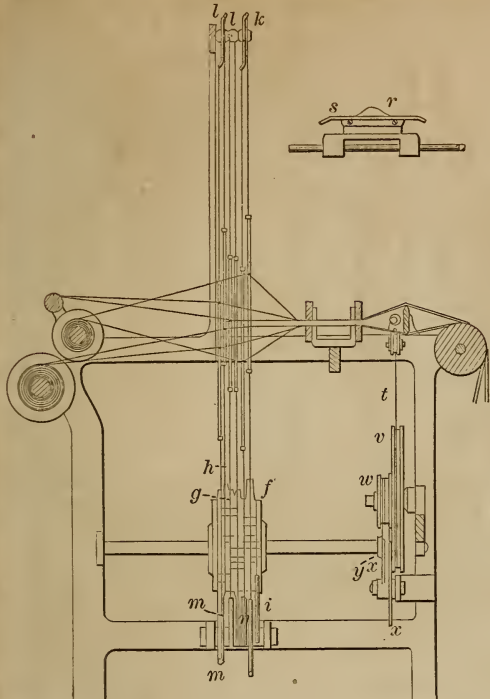
46752—T. W. Hammon—Corn Plow.



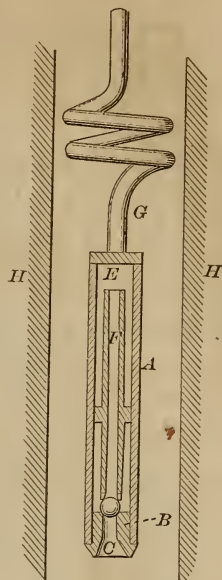
46753—J. Higbee—Rudder.



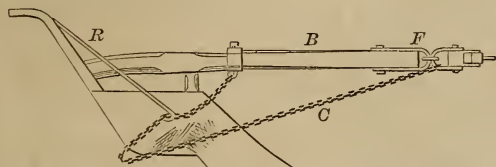
46754—S. Holt—Loom.



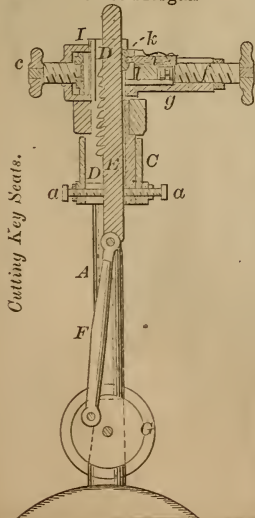
46756—T. J. Lovegrove—
Sand Pump.



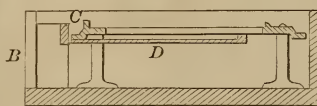
46755—J. Kilmer—Plow.



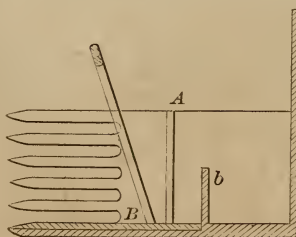
46758—J. C. Morgan—



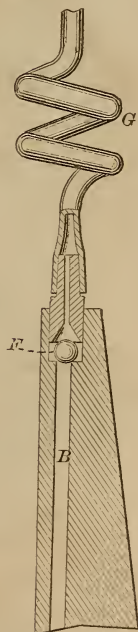
46759—S. T. Parmelee—
Piano Forte.



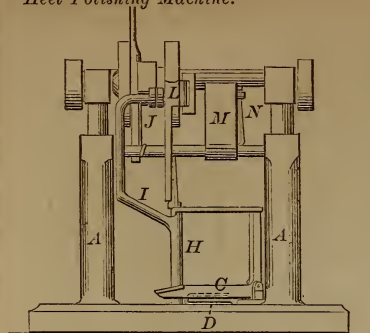
46760—G. Shove—Cranberry
Gatherer.



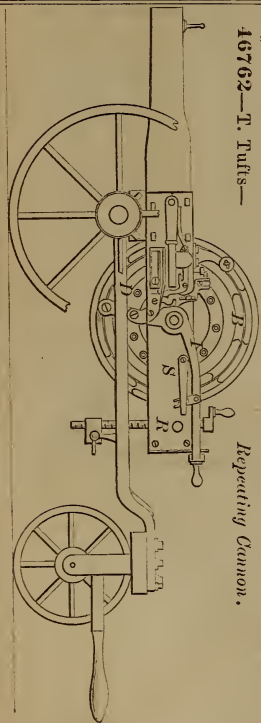
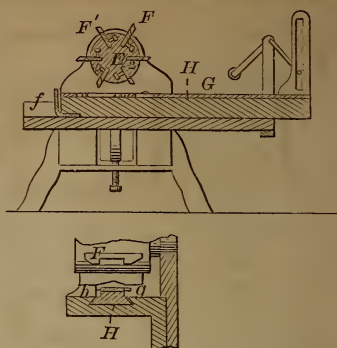
46757—
T. J. Lovegrove—
Rock Drill.



46761—Thompson & Tripp—
Heel Polishing Machine.

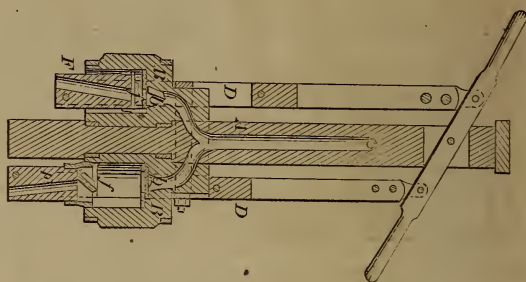


46763—J. G. Valentine—Button Machine.



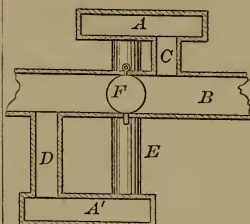
46762—T. Tufts—

Repeating Cannon.

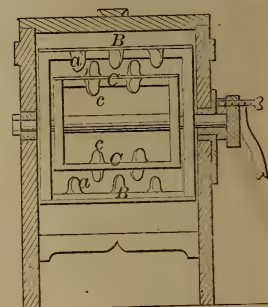


46764—J. H. Williamson—Pump.

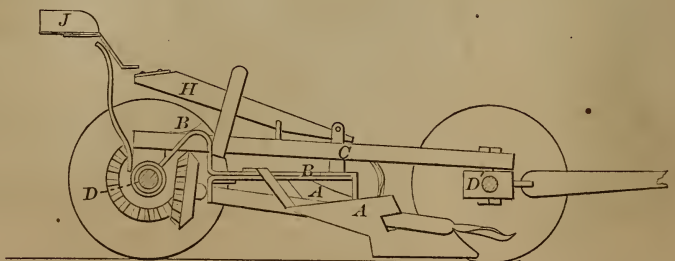
46765—
W. P. & H. A. Adams—
Stove.



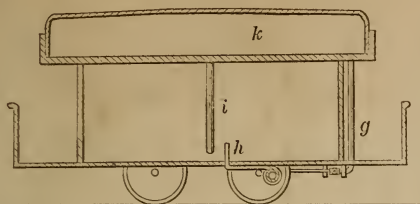
46766—H. Allen, Jr.—Churn.



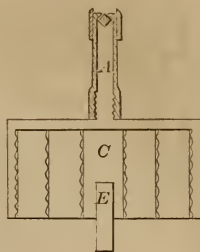
46768—J. B. Atwater—Plow.



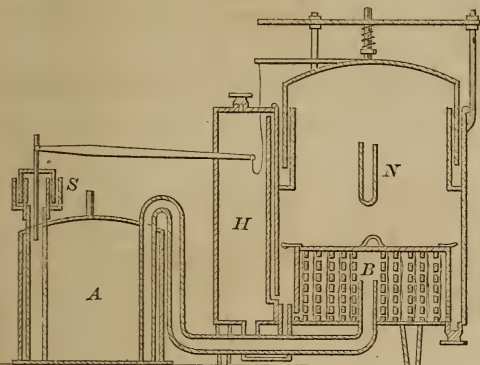
46769—N. H. Barbour—Carbonic Acid Engine.



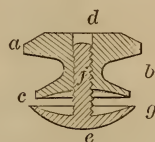
46770—J. A. Bassett—Burners for Carburetted Air.



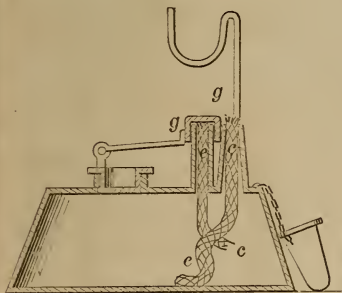
46771—J. A. Bassett—Carburetted Air.



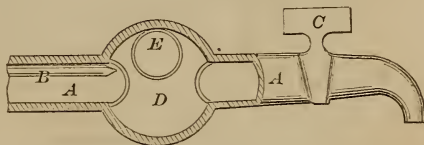
46772—P. H. Benedict—Button.



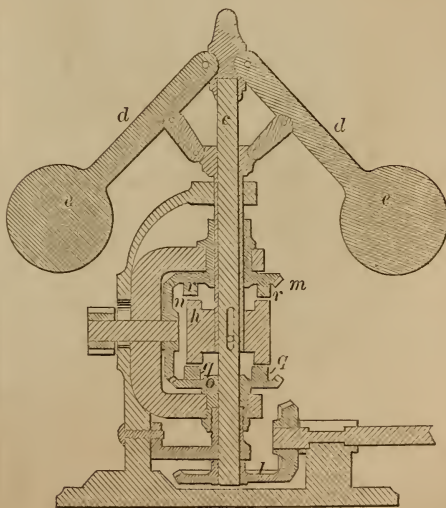
46775—D. T. Burrell—Lamp.



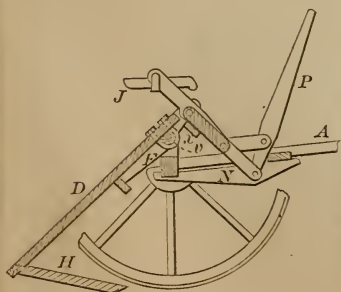
46773—J. Bevan—Preventing Water Pipes from Bursting.



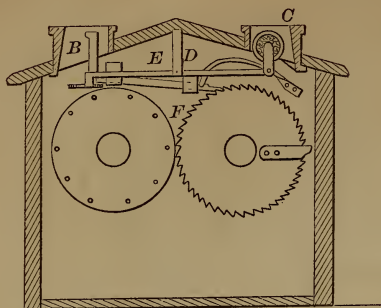
46778—D. A. Clary—Governor.



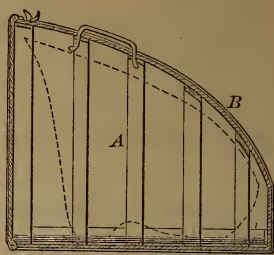
46776—G. E. Burt—Horse Rake.



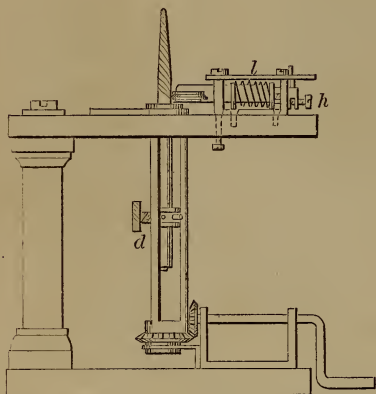
46779—B. Cole—Money Safe.



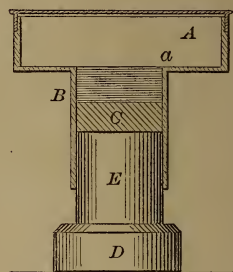
46782—O. A. Dailey—Hat Box.



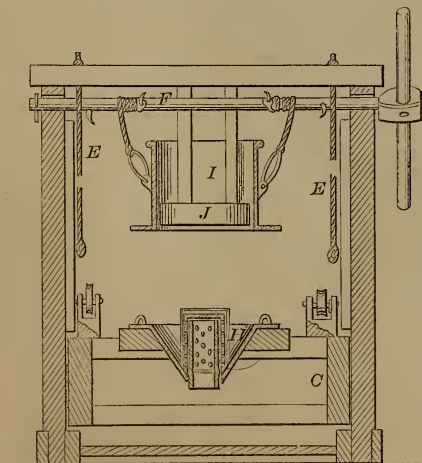
46780—M. G. Crane—File Cutting Machine.



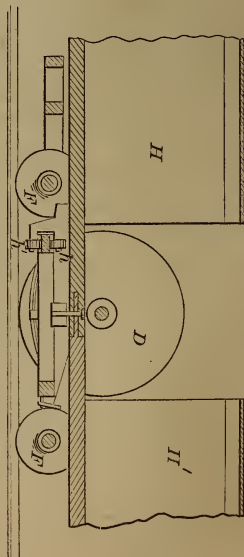
46783—J. H. Doughty—Blacking Box.



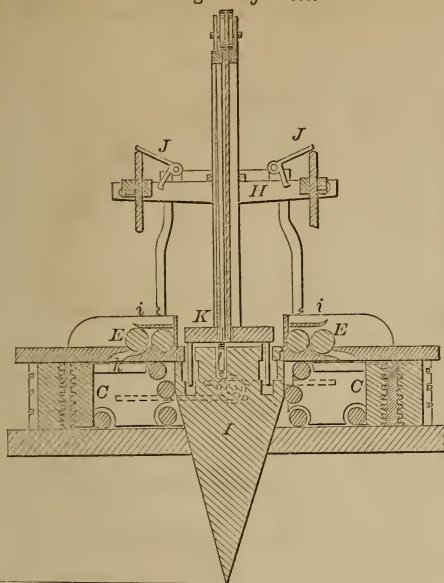
46781—J. C. Crismar—Sugar Cane Press.



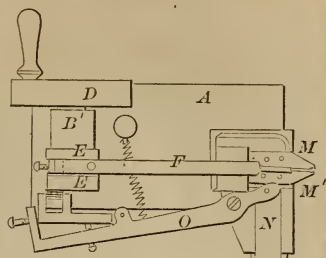
46784—S. B. Driggs—Railroad Cars.



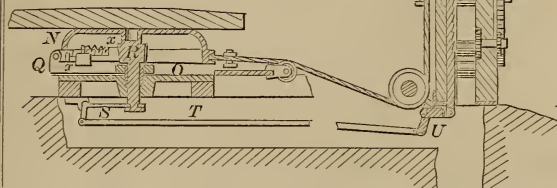
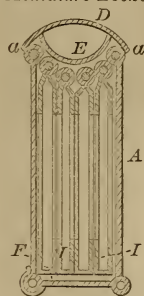
46785—B. T. Dunning—Hay Press.



46786—Duff & Griffith—Dental Instrument.

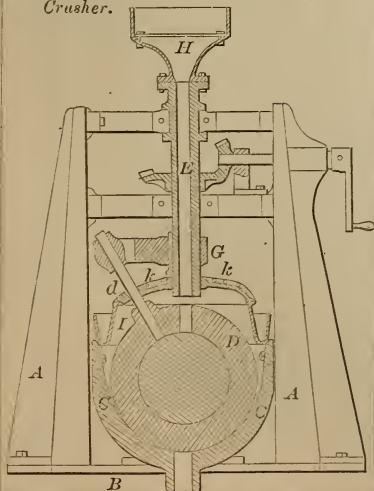


46788—E. N. Foote—Miniature Locket.



46787—J. C. S. Fitzpatrick—Time Indicator.

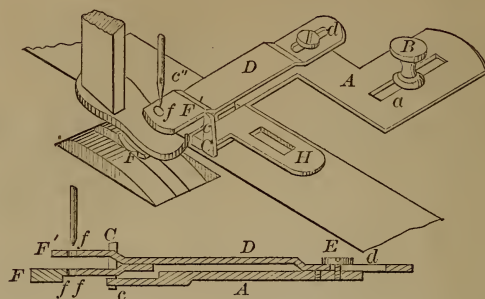
46789—P. G. Gardiner—Quartz Crusher.



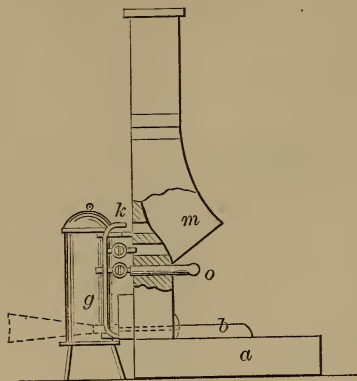
Time Indicator for Rail-Roads.

and Ohio R.	Phila.	N. Cen. R.
Trains.	Express.	Express.
4th.	Express.	Express.
6th.	Way Mail	Harrisb'g

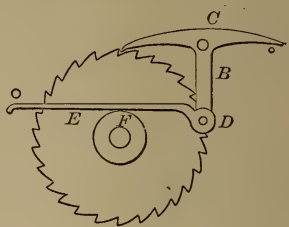
46790—W. Gaskill—Sewing Machines.



46792—J. H. Gould—Blacksmith's Forge.

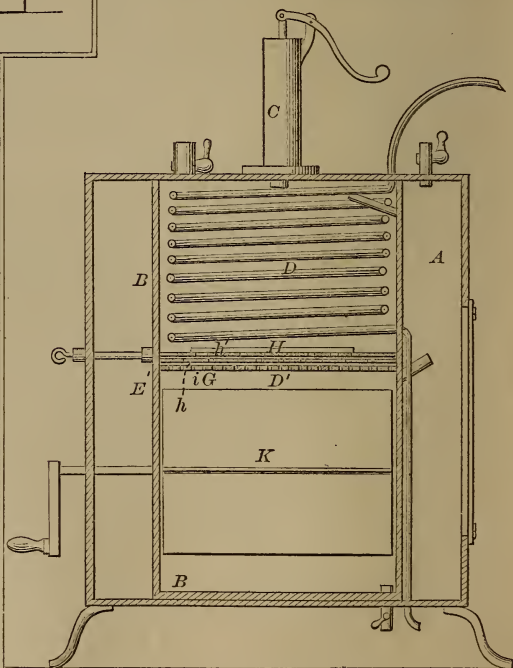
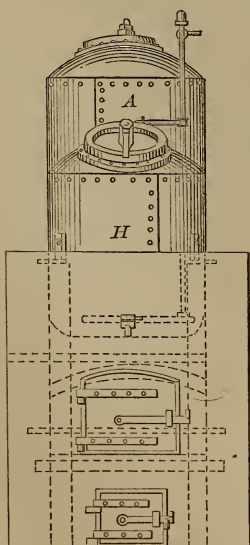


46791—O. Gilder—Ratchet and Pawl.

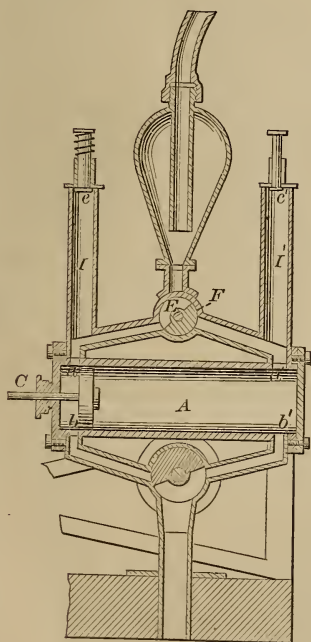
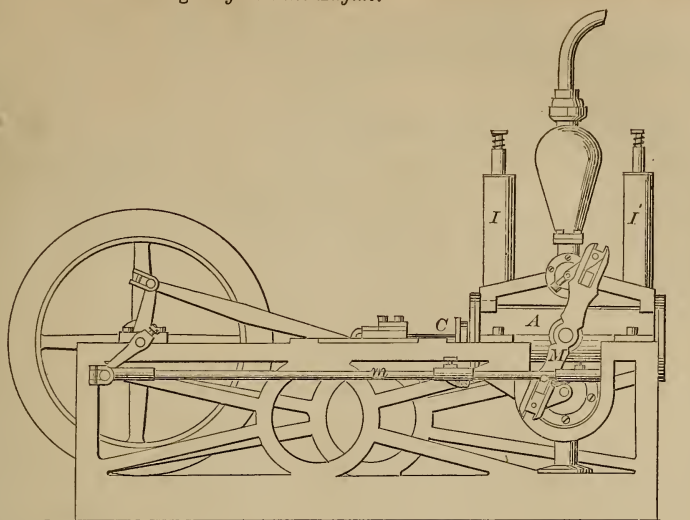


46794—J. Green—Deodorizing Petroleum.

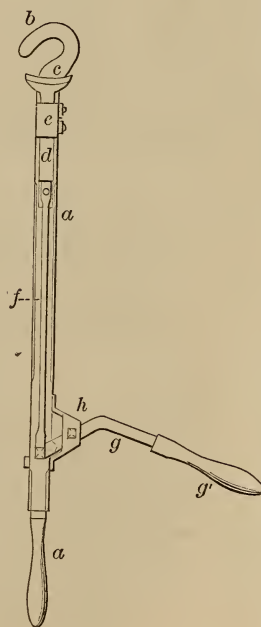
46793—C. E. Gray—Rendering Apparatus.



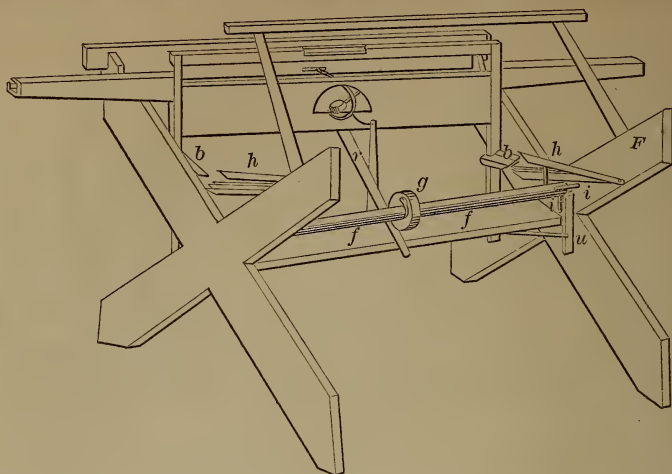
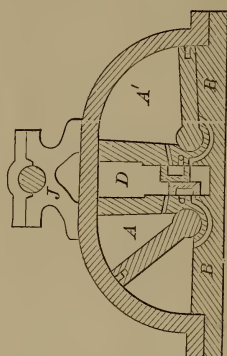
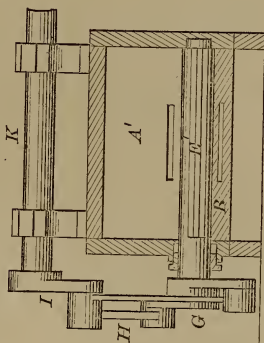
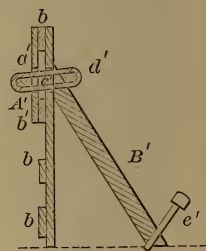
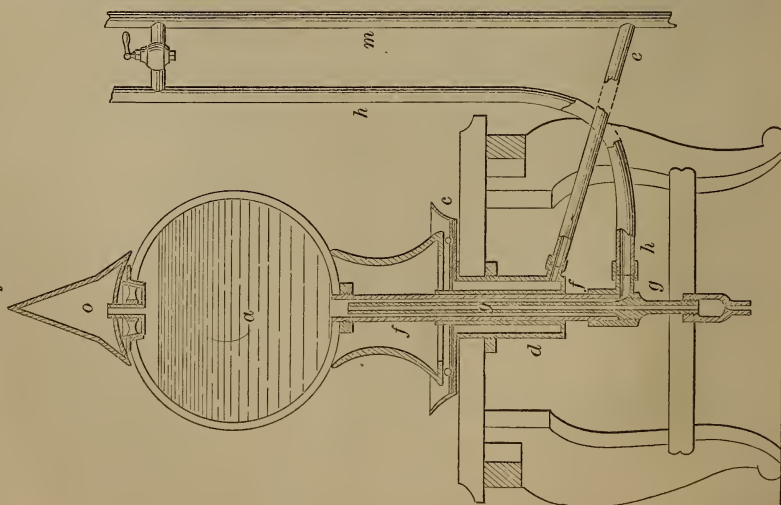
46795—Hansbrow & Redding—*Hydrostatic Engine.*



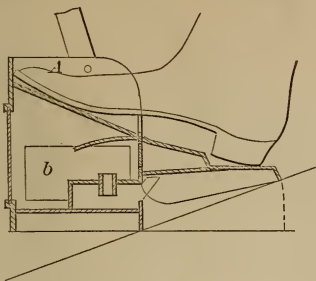
46797—L. M. Harris—*Pruning Hook.*



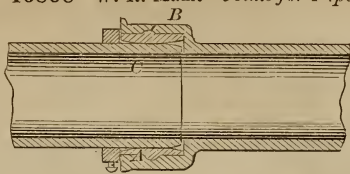
46796—L. M. Harris—*Snare.*

46798—J. G. & H. T. Henderson—*Hand Loom.*46800—C. W. Isbell—*Steam Engine.*46799—E. Hollinger—*Fence.*46801—A. Ivors—*Globes for Fishes.*

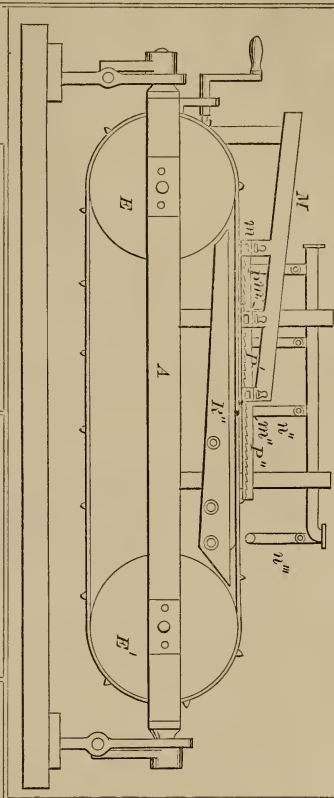
46802—D. L. Jaques—*Stove Lantern.*



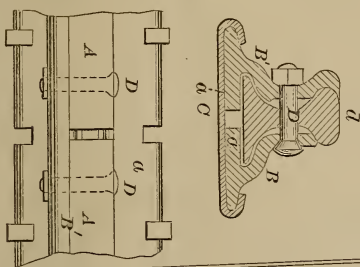
46808—W. R. Maffit—*Joints for Pipes.*



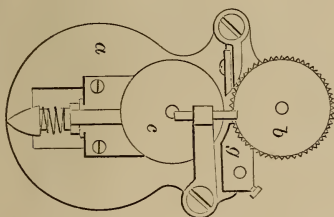
46806—G. Kuslet—Concentrating Table for Ures.



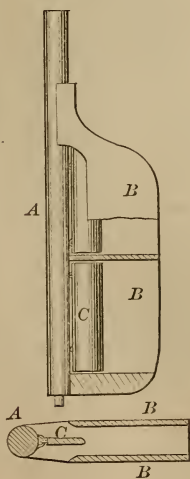
46803—J. H. Jones—
Railroad Chairs.



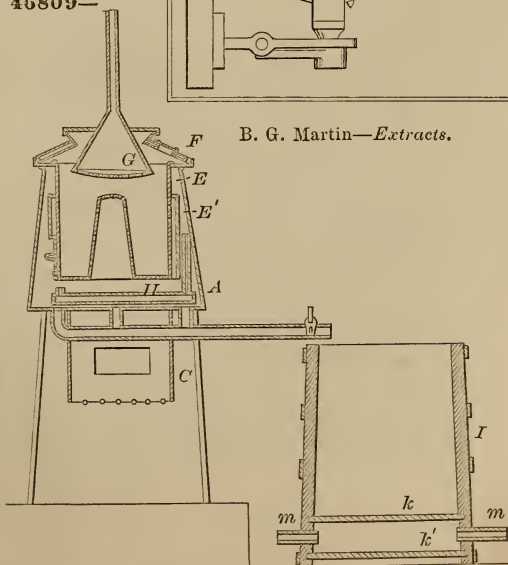
46805—W. H. Kimball—
Shoe Stamping Machine.



46807—N. D. Le Pelley—
Rudder.

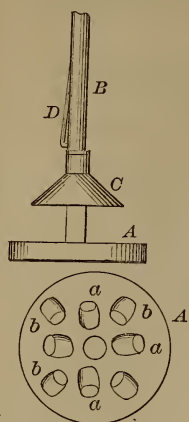


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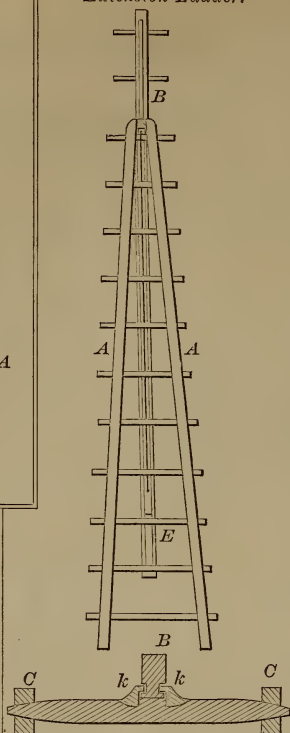


B. G. Martin—*Extracts.*

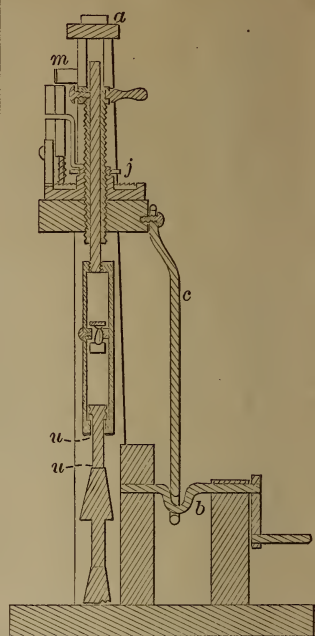
46810—D. McCurdy—
Churn Dasher.



46812—W. Morehead—
Extension Ladder.



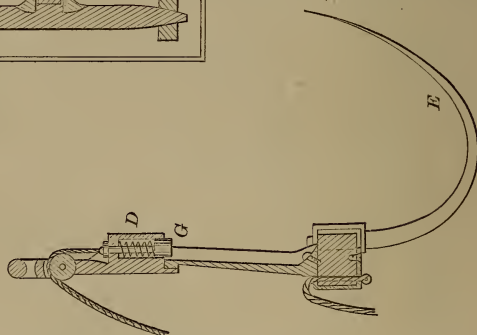
46813—J. Moulton—Drilling
Machine.



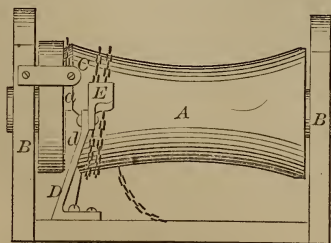
46815—C. L. Noe—
Drill.



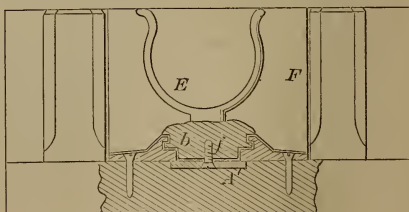
46814—H. D. Myers—
Horse Hay Fork.



46811—W. C. McGill—Windlass.



46816—J. W. Norcross—Row Lock.

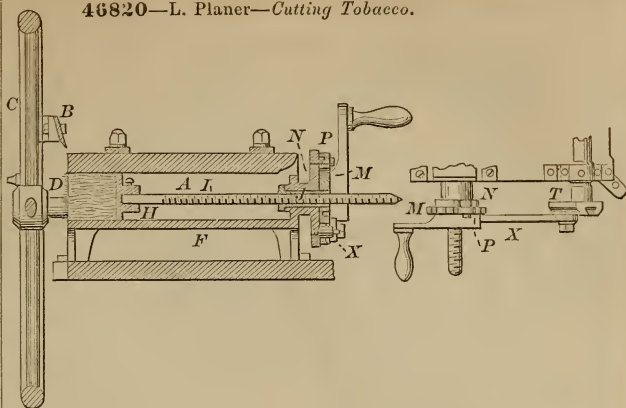


46818—

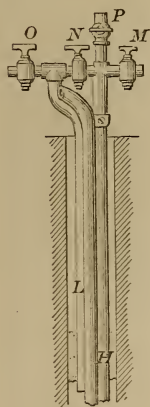


J. A. Patterson—*Tools for Oil Wells.*

46820—L. Planer—*Cutting Tobacco.*



46824—H. Searl—*Oil Ejector.*

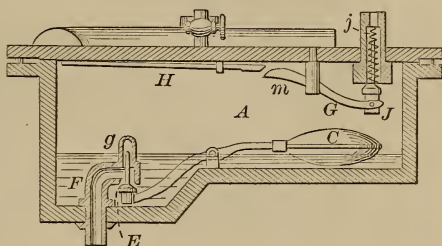


46822—

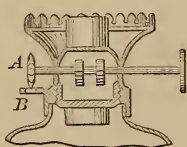
J. Renshaw—*Vise.*



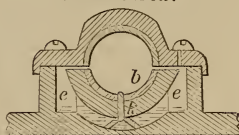
46825—J. C. & G. Shackelton—*Steam Trap.*



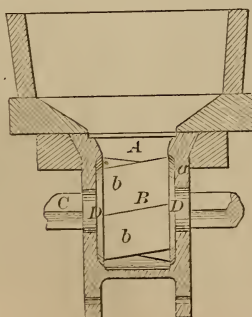
46819—Perkins & House—*Lamp.*



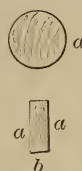
46823—Rice & Millen—*Journal Box.*



46821—B. Regan—*Grain Drill.*



46826—H. D. Smith—*Chewing Tobacco.*



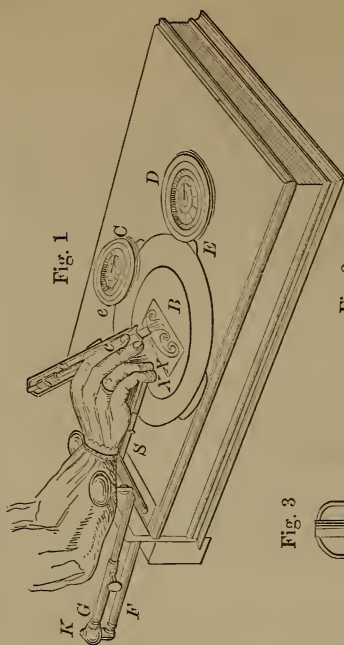
46827—E. G. Squires—*Training the Muscles.*

Fig. 2

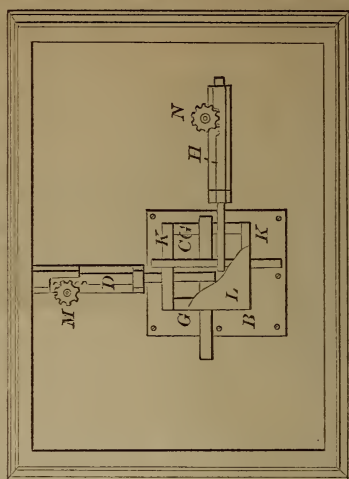
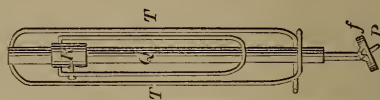
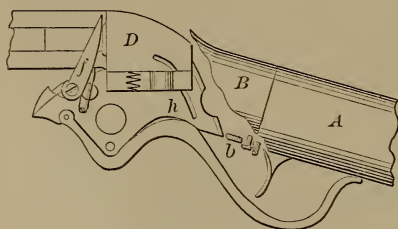
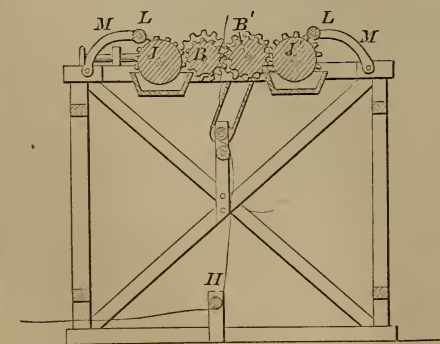
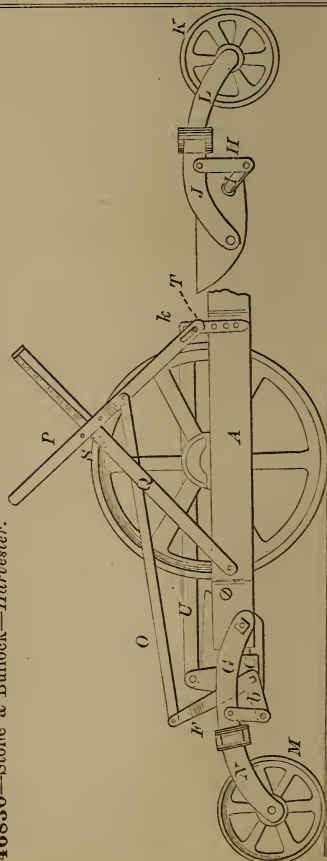
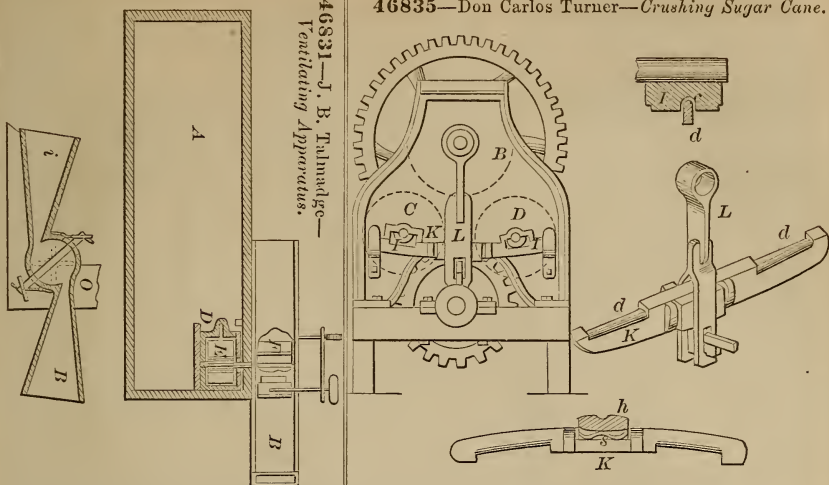


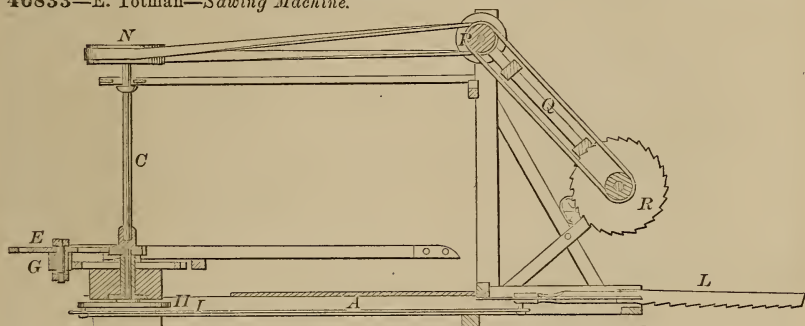
Fig. 3

46828—L. Stabler—*Fire Arms.*46829—Stevens & Green—*Printing Yarn.*46830—Stone & Bullock—*Harvester.*

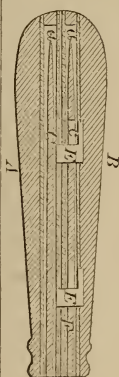
46835—Don Carlos Turner—Crushing Sugar Cane.



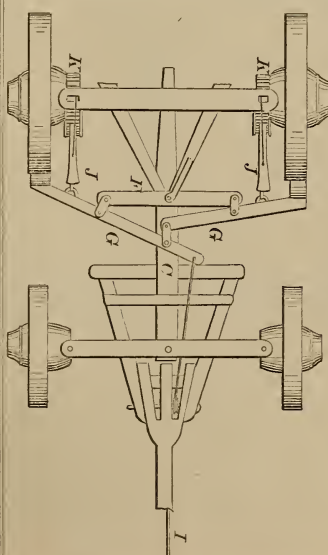
46833—E. Totman—Sawing Machine.



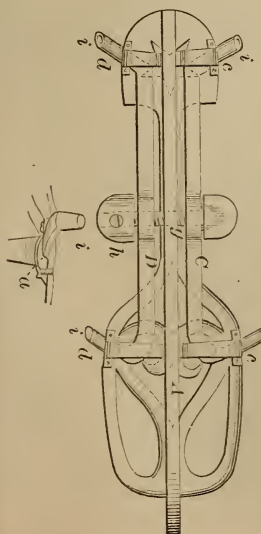
46832—T. P. Thorpe—Knife and Fork.

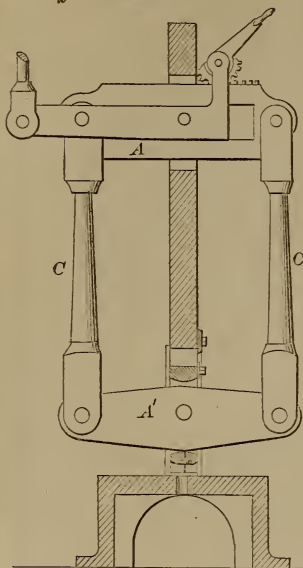
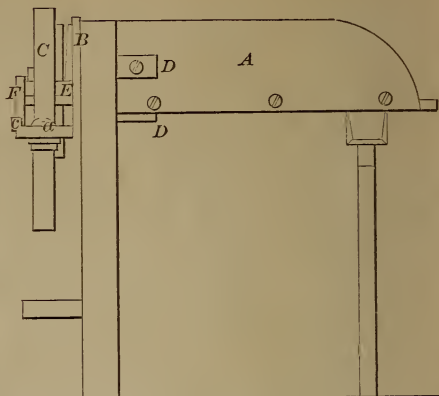
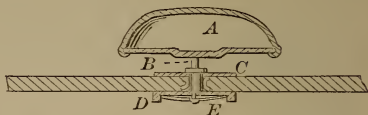
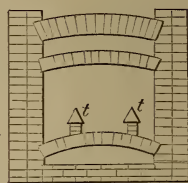
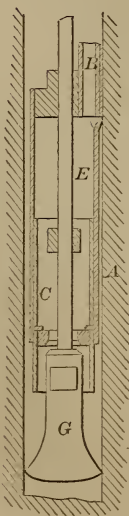
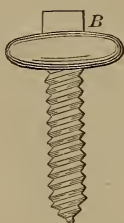
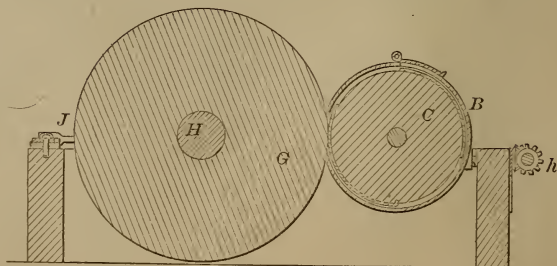


46831—F. L. Tripp—Wagon Brake.

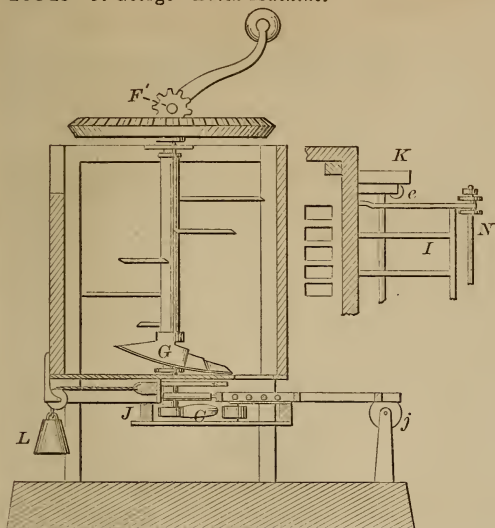


46836—T. V. Wagner—Skate.

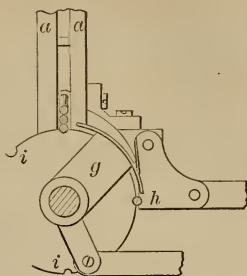


43837—E. Waite—*Felted Goods.*46838—G. I. Washburn—*Differential Lever.*46839—J. R. Whittemore—*Straw Cutter.*46840—J. F. Wild—*Button.*46841—W. D. Wood—*Finishing Sheet Iron.*46844—C. E. Foster—*Well Boring.*46842—A. Arnold—*Fastening Railroad Rails.*46843—J. G. Baker—*Saw Grinding Machine.*

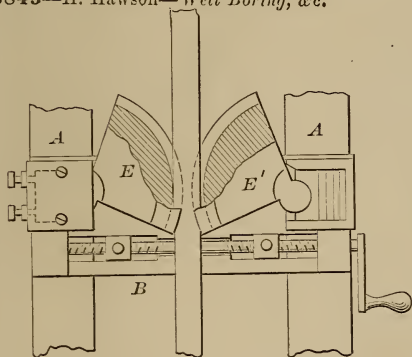
46845—J. George—Brick Machine.



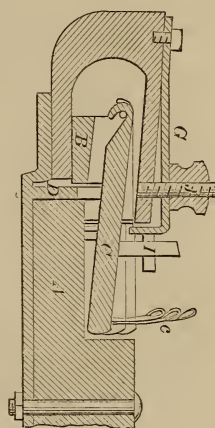
46846—S. W. Goodyear—Screw Cutting.



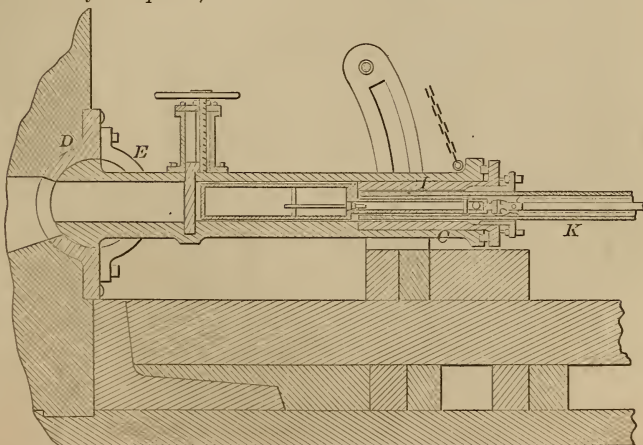
46849—H. Hawson—Well Boring, &c.



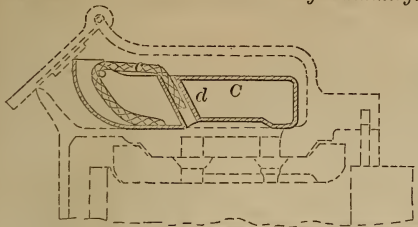
46848—T. Hawthorne—Circular Knitting Machine.



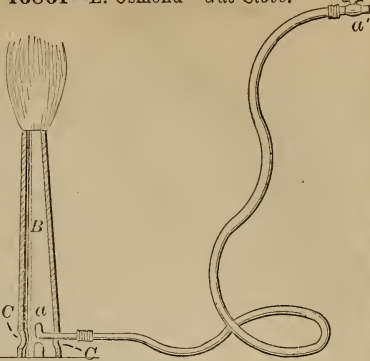
46850—J. L. Lay—Torpedoes, &c.



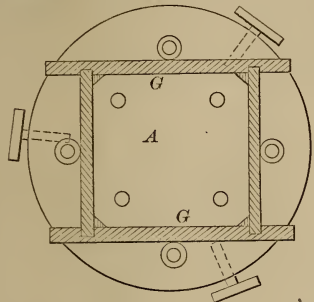
46856—P. E. Proust—*Lubricating Machinery.*



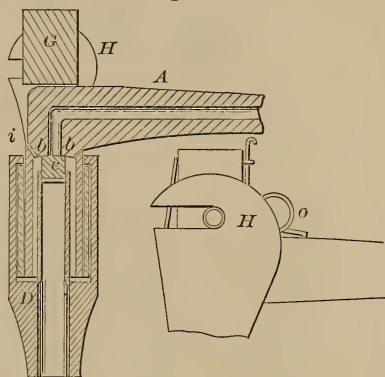
46861—E. Osmond—*Gas Stove.*



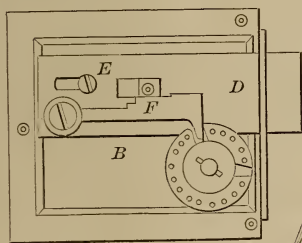
46859—J. Lebeau—*Moulders' Table.*



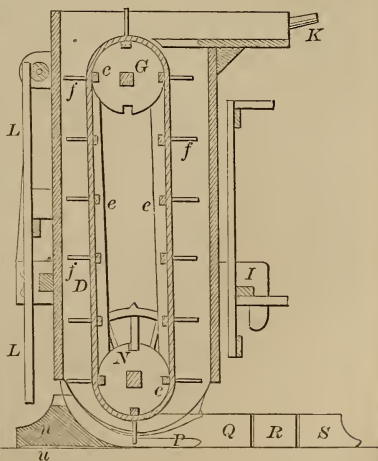
46862—J. Mottingham—*Faucet.*



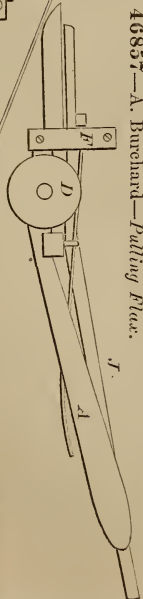
46858—W. B. Dodds—*Lock.*



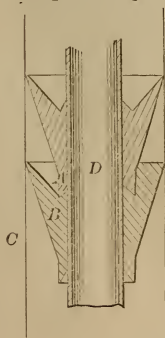
46863—J. Mottingham—*Raking and Loading Hay.*



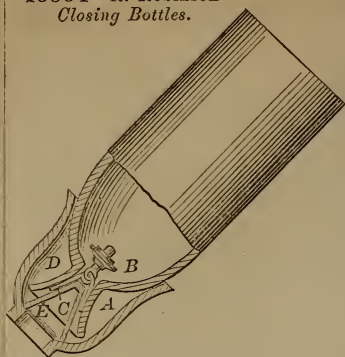
46857—A. Burchard—*Pulling Flue.*



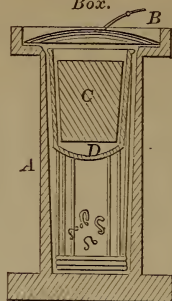
46860—J. Moulton—*Pump Packing.*



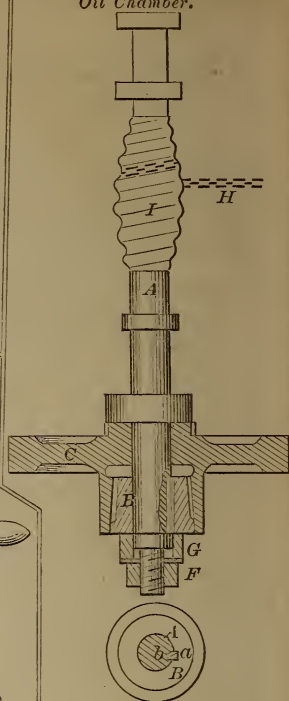
46864—R. Robinson—
Closing Bottles.



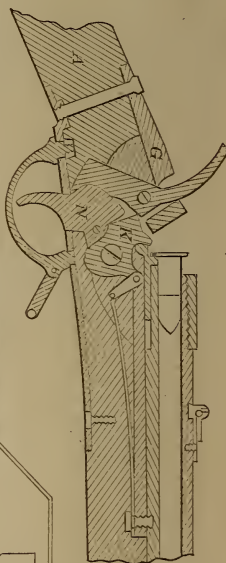
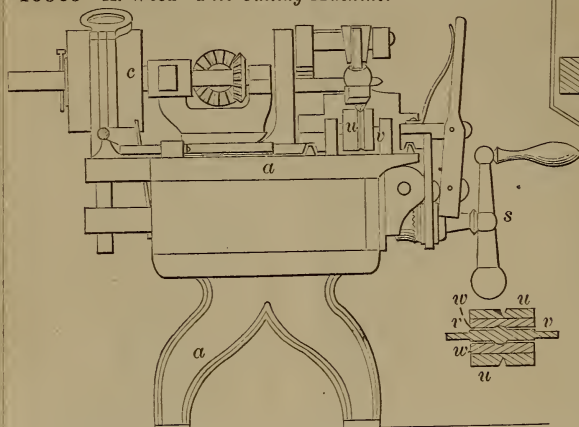
46868—H. Babcock—
Thread and Needle
Box.



46867—A. I. Ambler—
Oil Chamber.

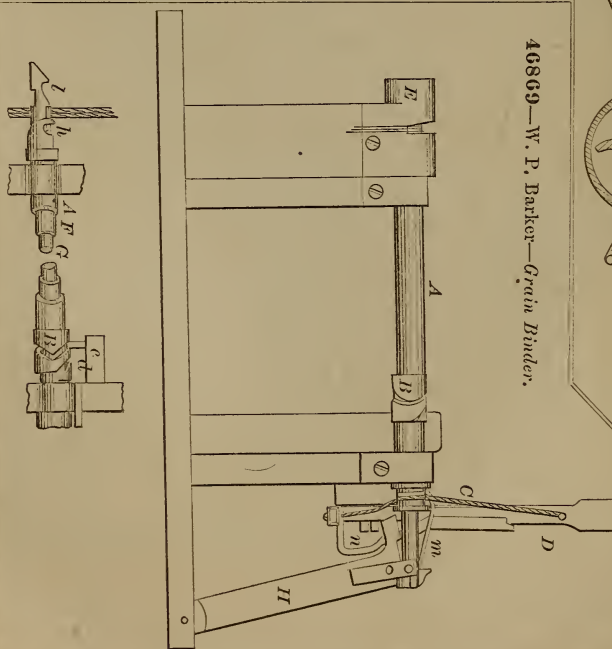


46865—A. Weed—File Cutting Machine.

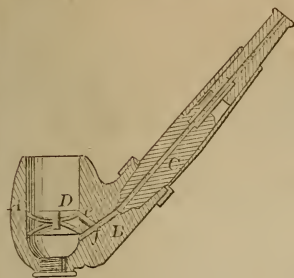


46866—L. Sullivan—Five Arm.

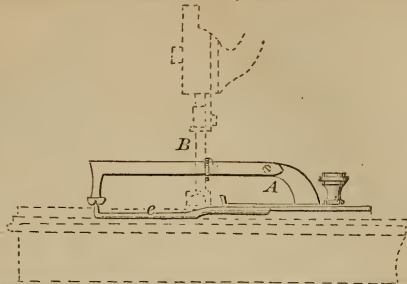
46869—W. P. Parker—Grain Binder.



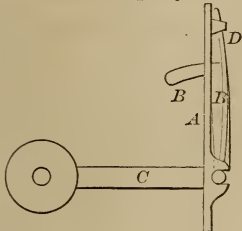
46870—J. P. Baxter—*Pipe*.



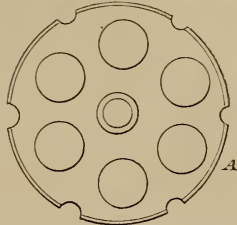
46871—J. Bolton—*Sewing Machine.*



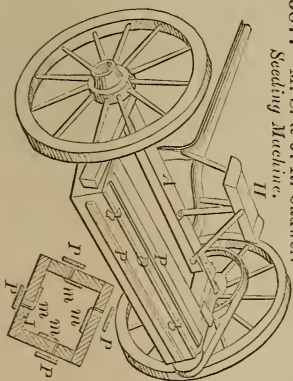
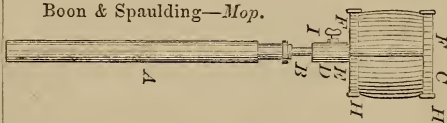
46874—E. K. Breckenridge—
Window Spring.



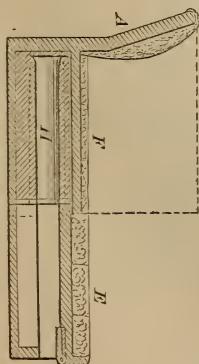
46876—D. W. Bryant—*Grain Conveyor.*



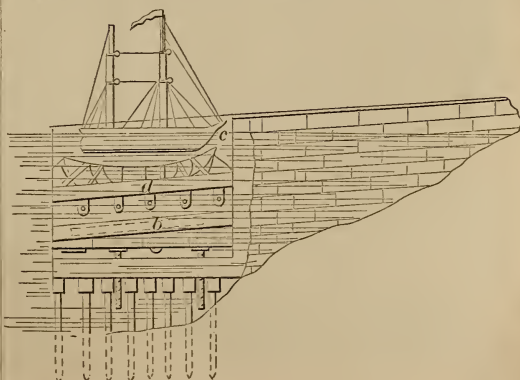
45877—M. S. & J. R. Cadwell-
Seeding Machine.

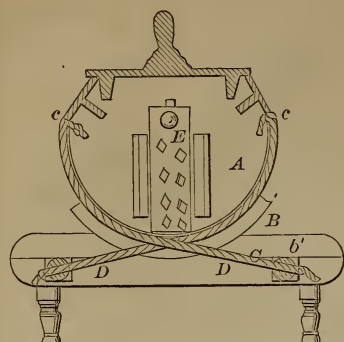
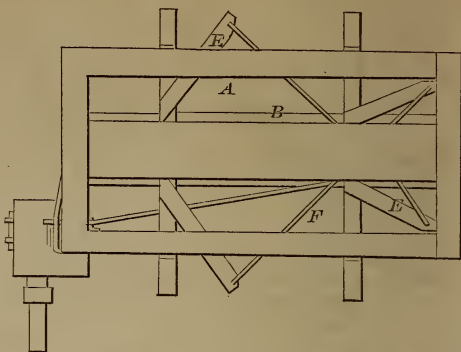
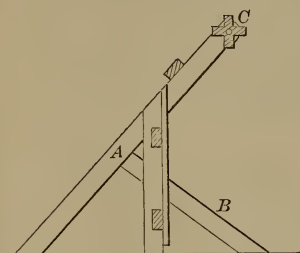
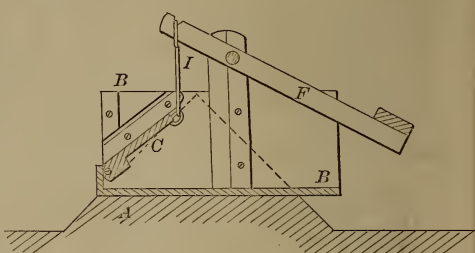
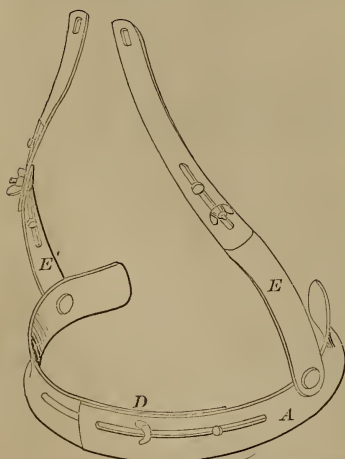
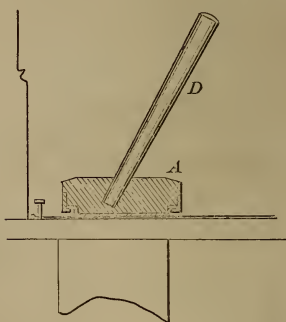
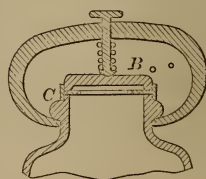
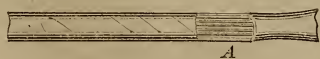
Boon & Spaulding—*Mop.*

46879—5. Chapin—Soft Bed.

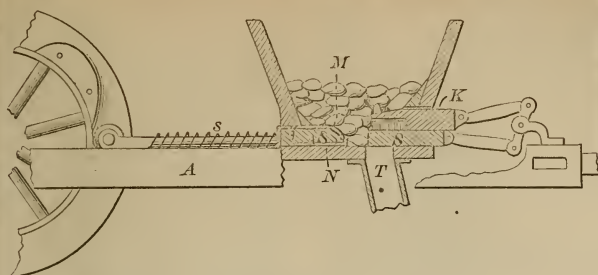


46878—W. F. Channing—*Marine Railway.*

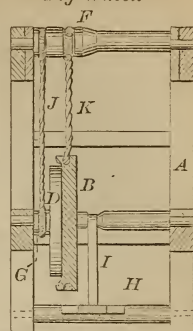


46880—E. Chipman—*Churn.*46881—S. N. Cushing—*Railway Gate.*46881—J. H. & C. B. Clark—*Fence.*46883—M. Cotton—*Flood Gate.*46886—A. Dickey—*Knapsack Supporter.*46882—F. J. Collier—*Carpet Stretcher.*46887—T. Earle—*Preserve Jar.*46885—M. J. Danziger—*Cigarette.*

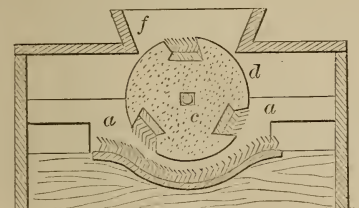
46889—C. H. Eggleston—Seedling Machine.



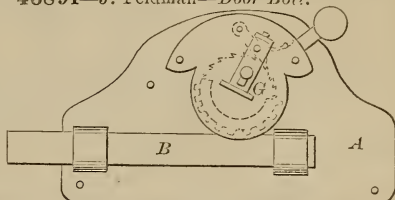
46890—D. Elkridge—Fly Wheel.



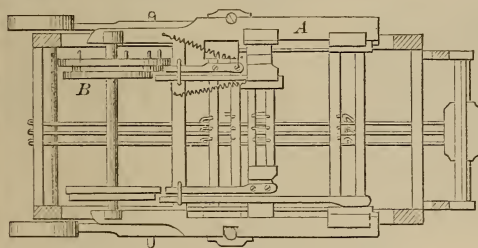
46893—J. G. Fuller—For preparing Paper Stock.



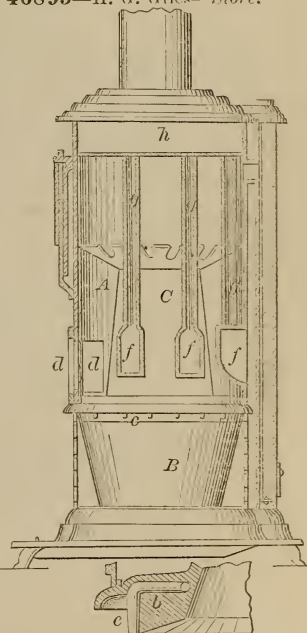
46891—J. Feldman—Door Bolt.



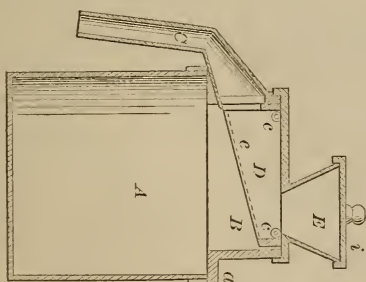
46892—J. S. Ferguson—Jacquard Loom.



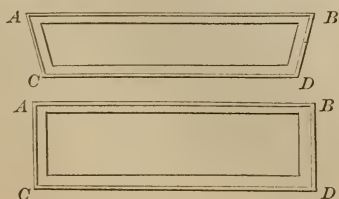
46895—H. G. Giles—Store.



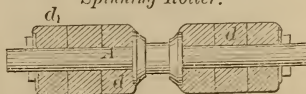
46894—J. L. Gilbert—Ash Sifter.



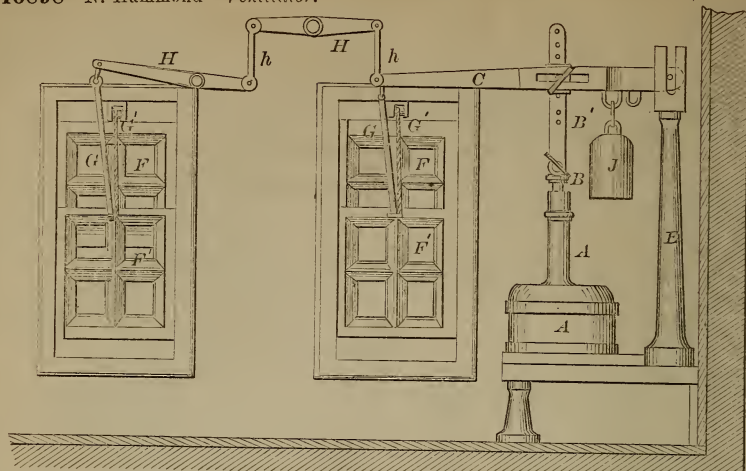
46897—F. L. Hagadorn—Sign for Street Lamps.



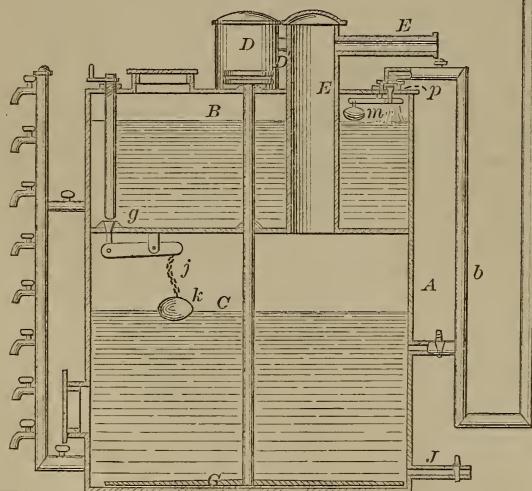
46896—I. & G. S. Goodspeed—Spinning Roller.



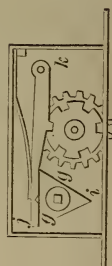
46898—N. Hammond—Ventilator.



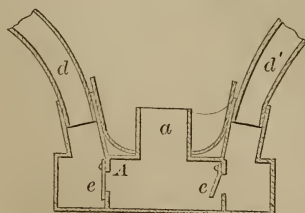
46899—C. A. Hardy—Oil Still.



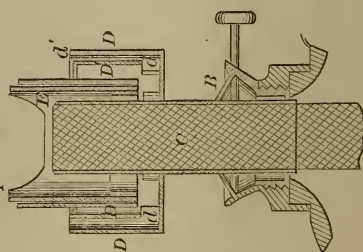
46900—J. O. Harris—Sash Supporter.



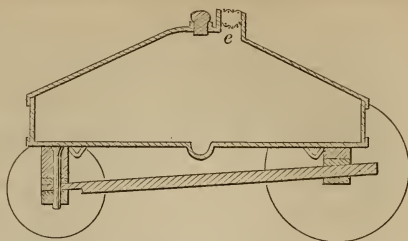
46902—J. Hawkins—Submarine Mouth Piece.



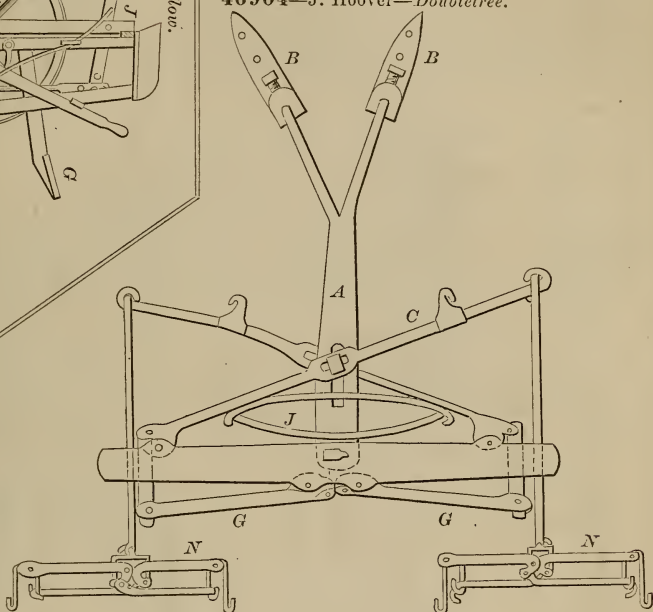
46901—J. O. Harris—Lamp Burner.



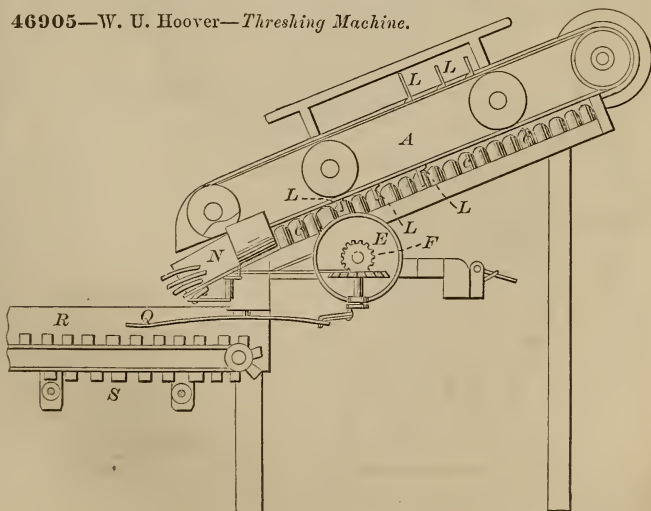
46906—W. W. Horton—*Portable Oil Tank.*



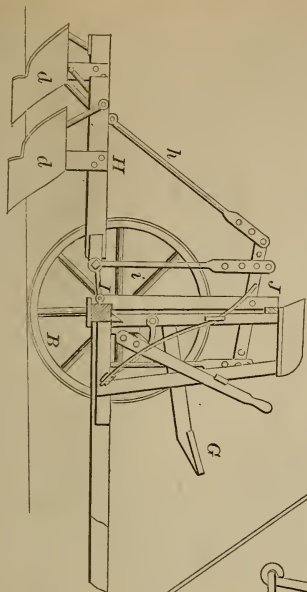
46904—J. Hoover—*Doubletree.*



46905—W. U. Hoover—*Threshing Machine.*

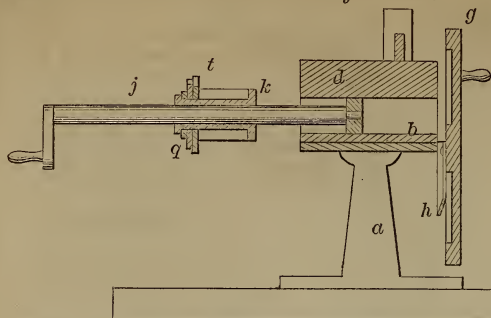
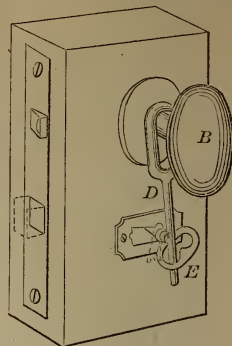
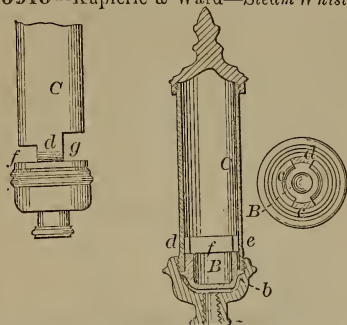


46903—L. Hollaway—*Gauging Pipe.*

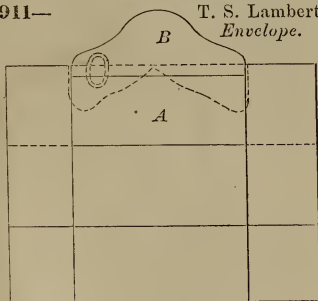
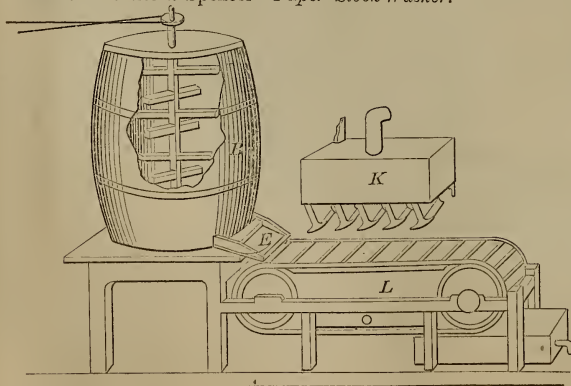
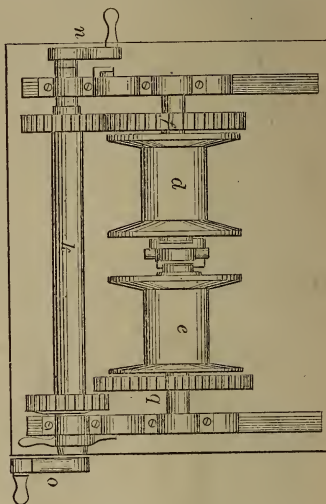
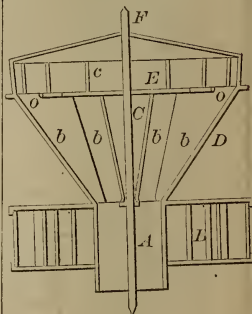


46907—R. Humphrey—*Spoon.*

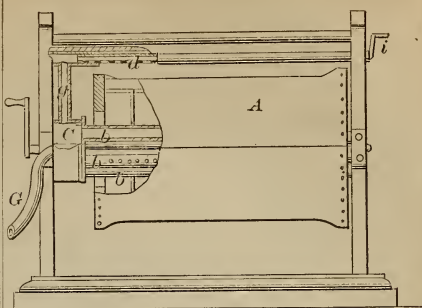


46908—W. W. Huse—*Tobacco Cutting Machine.*46914—C. Leavitt—*Lock Guard.*46910—Kupferle & Ward—*Steam Whistle.*

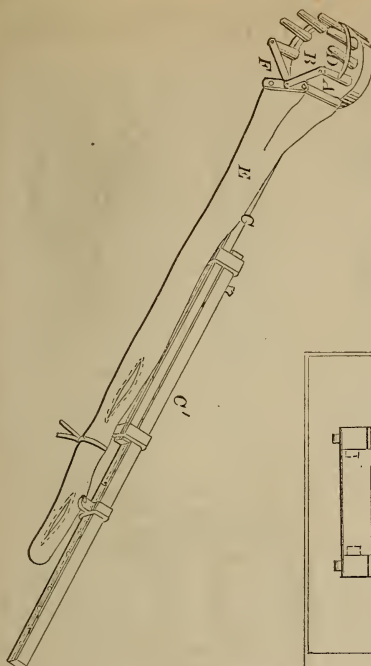
46911—

T. S. Lambert—*Envelope.*46915—Lenher & Spencer—*Paper Stock Washer.*46912—H. S. Lawson—*Oyster Dredge Winder.*46913—P. Lear—*Ventilator.*

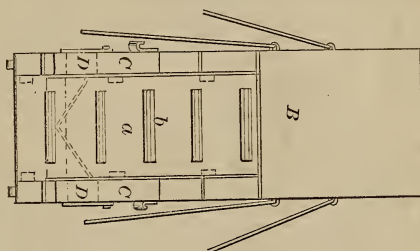
46919—J. E. Madigan—*Flour Bolt.*



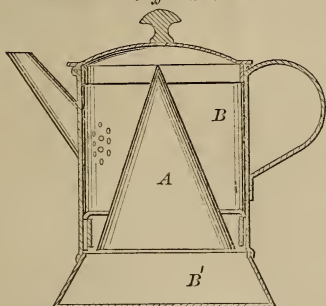
46916—J. A. Little—*Fruit Gatherer.*



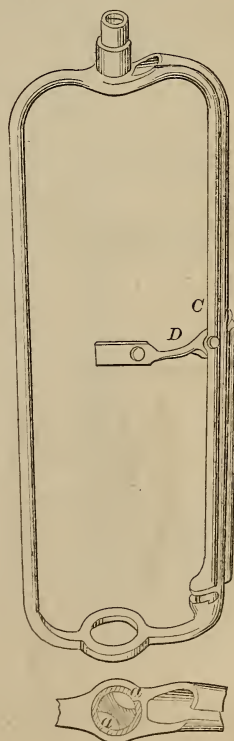
46918—W. H. Loomis—*Straw Stacker.*



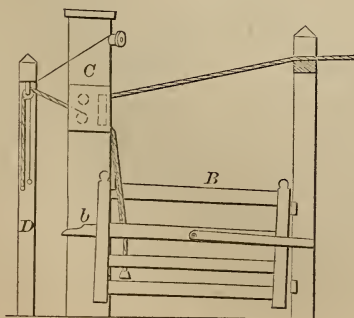
46917—L. H. Little—*Coffee Pot.*

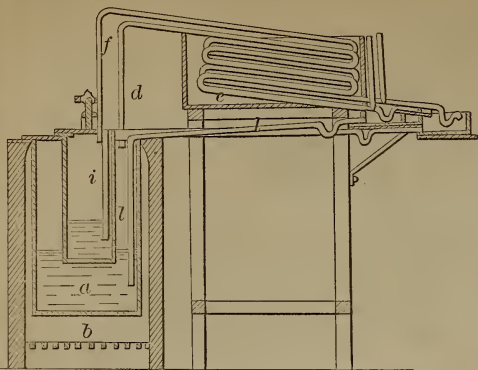
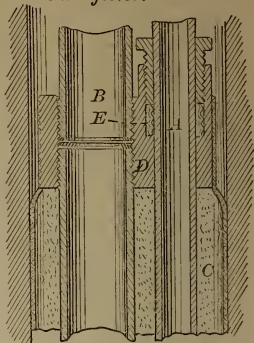
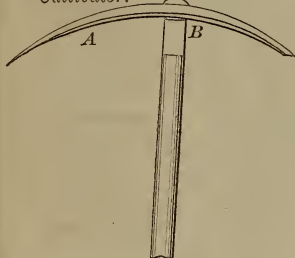


46921—T. Mayor—*Flyer.*

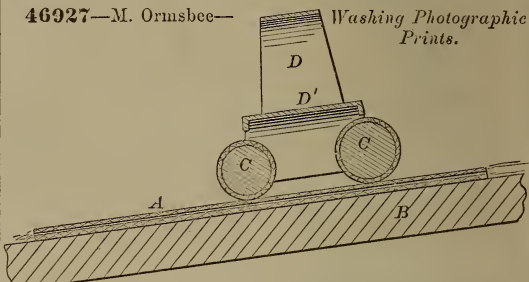
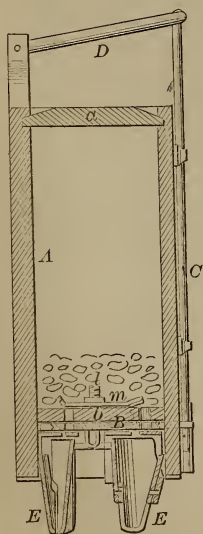
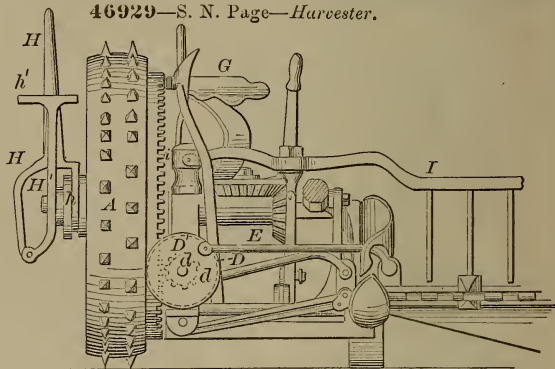
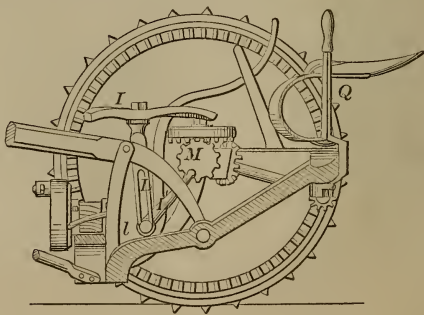


46920—J. Martin—*Farm Gate.*

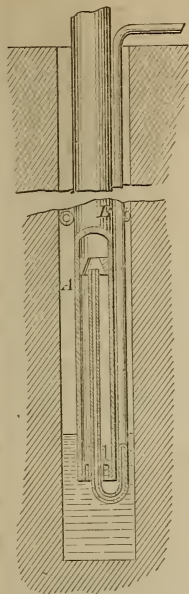


46923—A. Millochau—*Oil Still.*46925—G. M. Mowbray—*Oil Ejector.*46926—J. Naugle—*Hand Cultivator.*

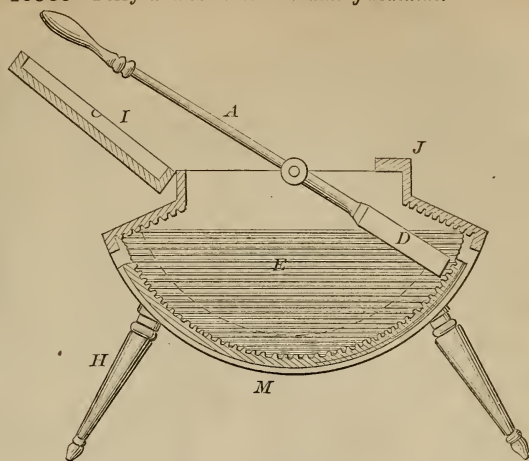
46927—M. Ormsbee—

Washing Photographic Prints.46928—M. S. Orton—*Hand Corn Planter.*46929—S. N. Page—*Harvester.*46930—S. N. Page—*Harvester.*

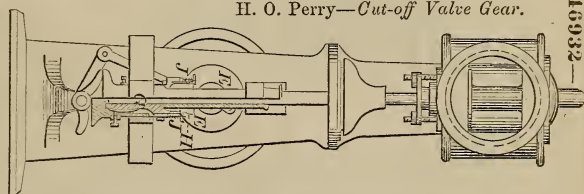
46931—F. S. Pease—*Oil Ejector.*



46935—Perry & Woodworth—*Washing Machine.*

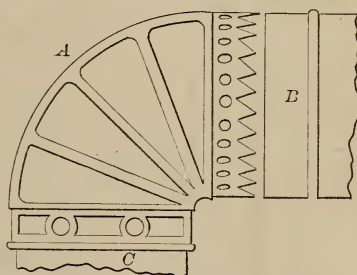


H. O. Perry—*Cut-off Valve Gear.*

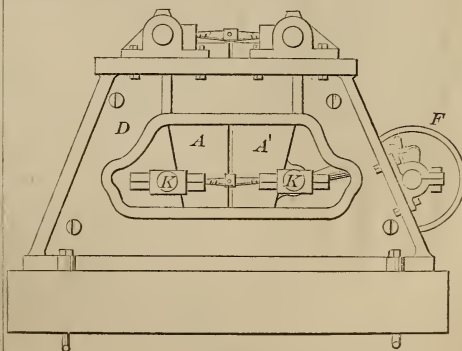


46932—

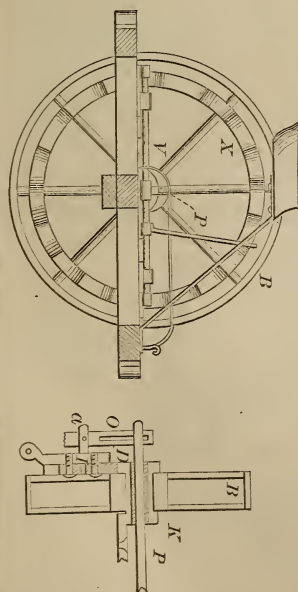
46934—J. G. Perry—*Stove Pipe Elbow.*

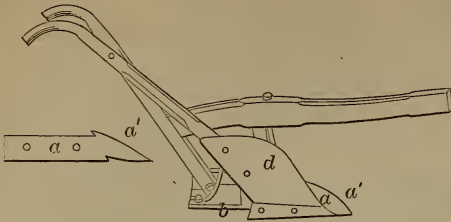
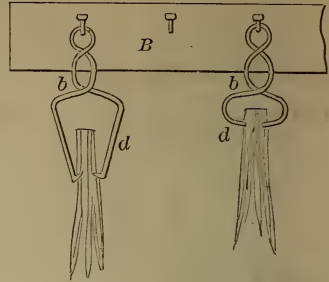
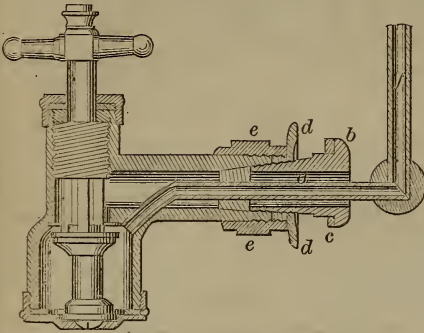
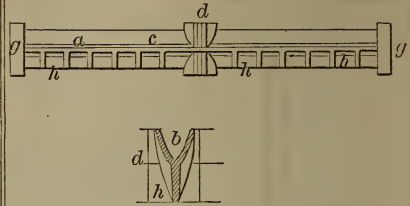
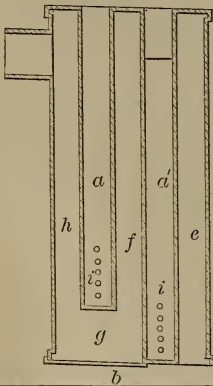
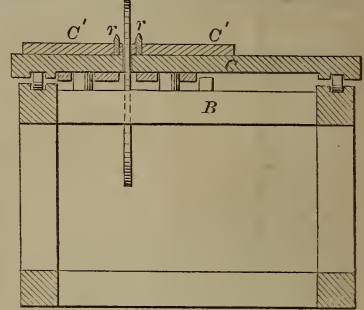
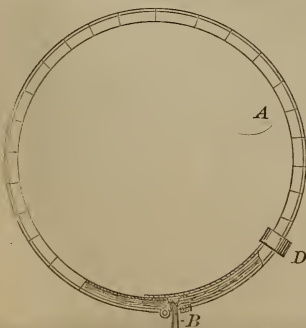
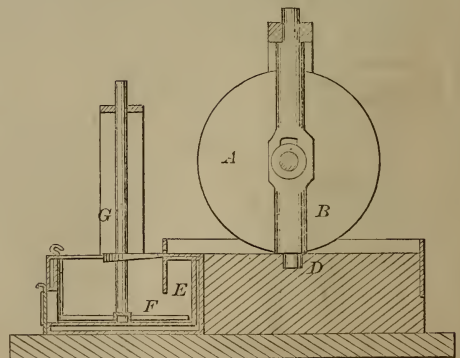


46936—G. K. Peterson—*Quartz Crusher.*

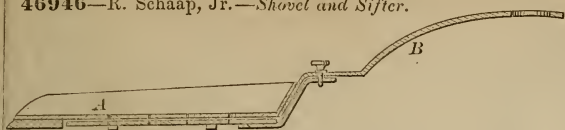


46933—J. G. Perry—*Mowing Machine.*



46937—N. Platt—*Plow.*46940—A. Putnam, Jr.—*Tobacco Hook.*46938—A. D. Puffer—*Syrup Valve.*46939—A. D. Puffer—*Grate Bar.*46941—W. E. Rennolds—*Heat Radiator.*46942—W. E. Richardson—*Meat Chopper.*46944—I. M. Rose—*Skirt Gatherer.*46945—T. Rowe—*Linseed Triturator.*

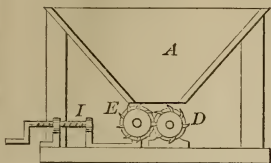
46946—R. Schaap, Jr.—*Shovel and Sifter.*



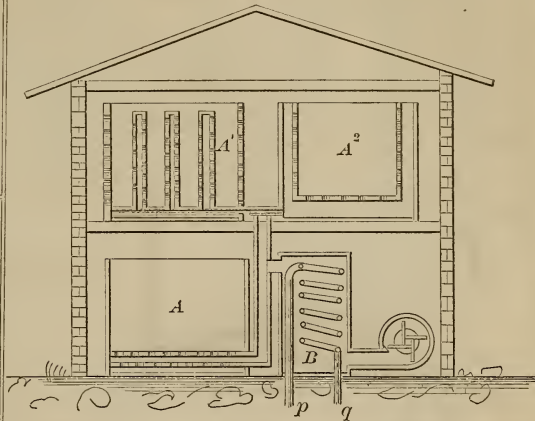
46948—Sears & Townsend—*Buckle.*



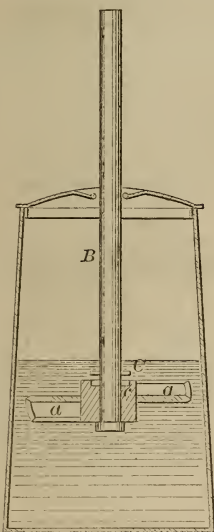
46947—F. H. Schroeder—*Grain Separator.*



46950—D. E. Somes—*Ventilator.*



46952—N. Starbuck—*Churn Dasher.*

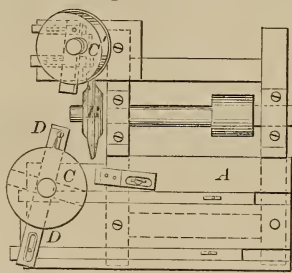


A. Shiland—*Drill.*

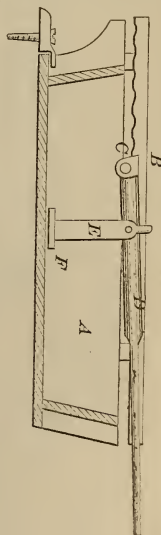


46949—

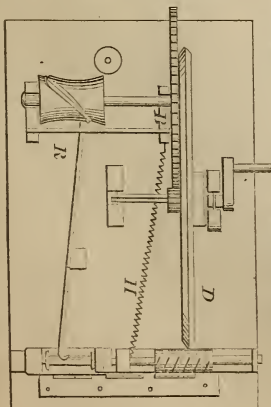
46951—R. Sparks—*Saw Sharpener.*



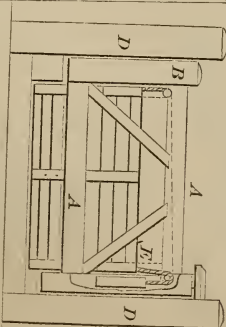
46953—L. S. Sharrett—*Butter Worker.*



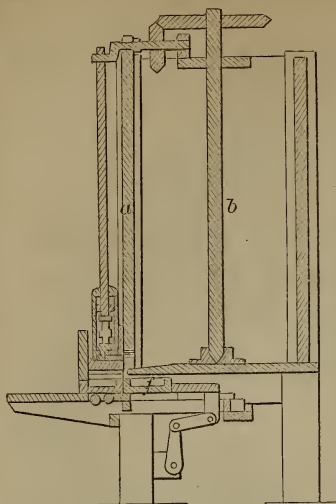
46955—A. W. Todd—*Bobbin Winder.*



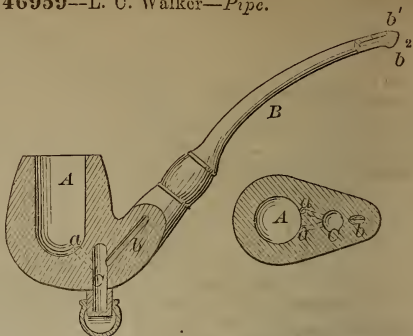
46954—G. Stovel—*Gate.*



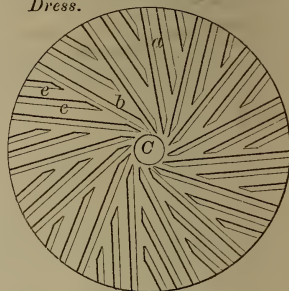
46956—J. Treadway—Brick Machine.



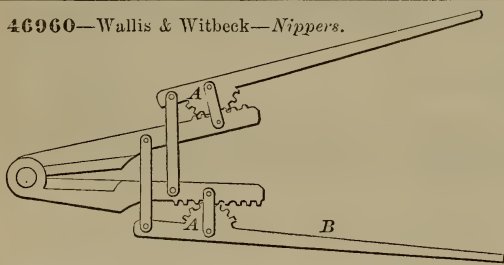
46959—L. C. Walker—Pipe.



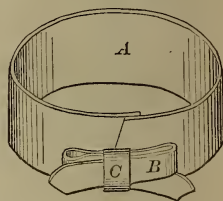
46963—A. Wing—Mill Stone Dress.



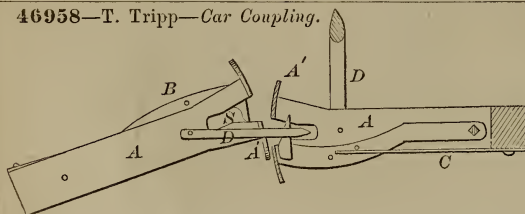
46960—Wallis & Witbeck—Nippers.



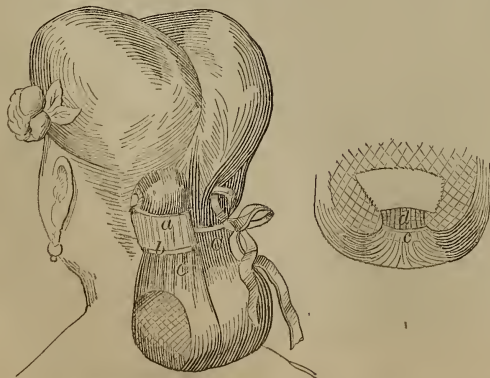
46962—T. S. Wiles—Neck Tie.



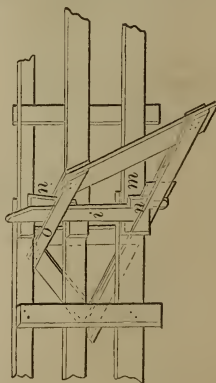
46958—T. Tripp—Car Coupling.



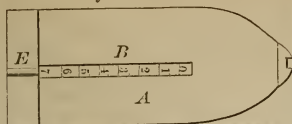
46961—P. Walter—Head Dress.



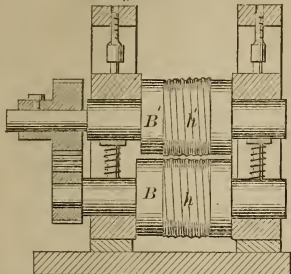
46964—O. H. Woodworth—Fence.



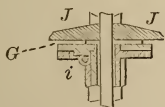
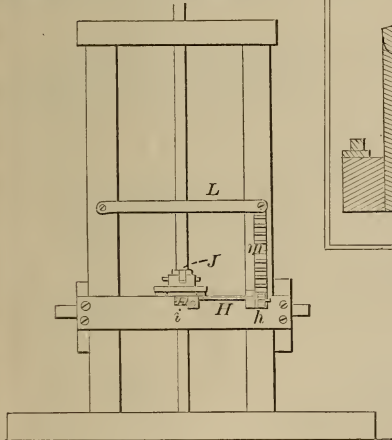
46965—G. Wright—*Time Fuse for Shells.*



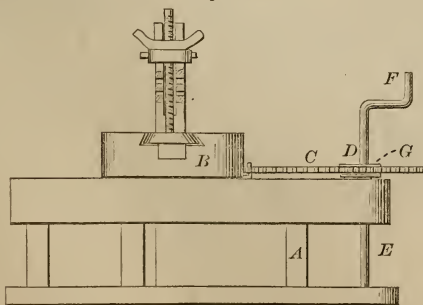
46967—E. Croft—*Machine for making Wire.*



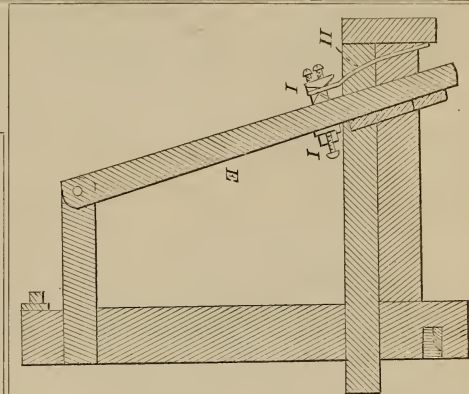
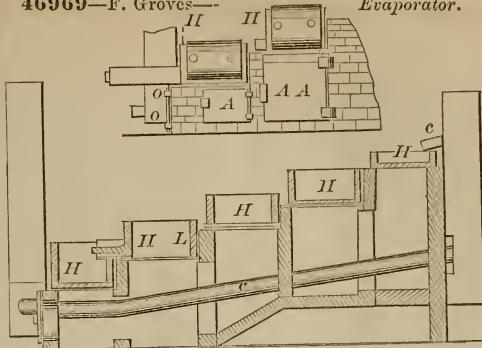
46968—C. E. Foster—*Well Borer.*



46966—A. Beekman—*Sewing Machine.*

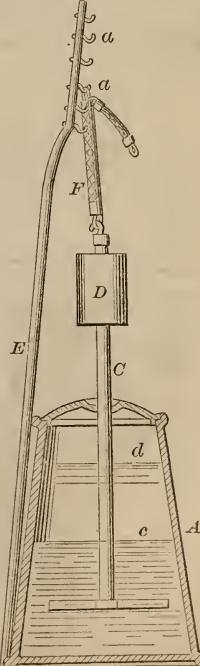


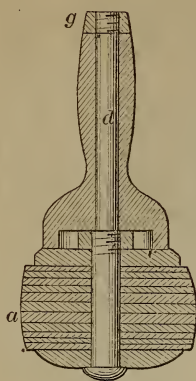
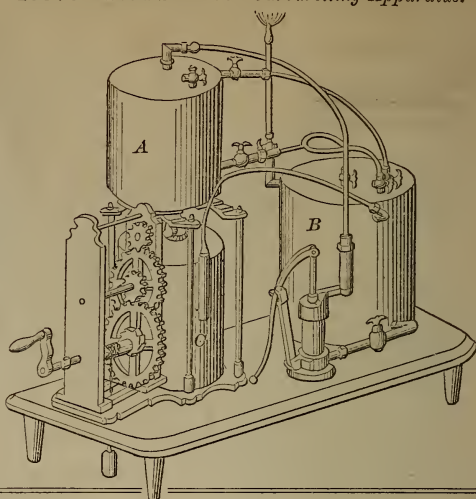
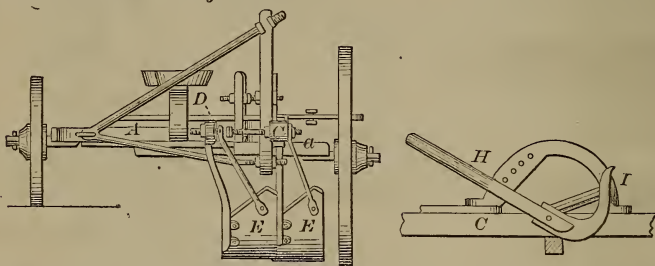
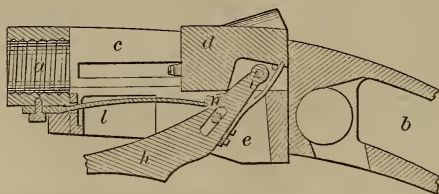
46969—F. Groves—*Evaporator.*



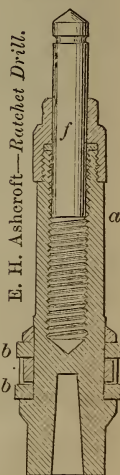
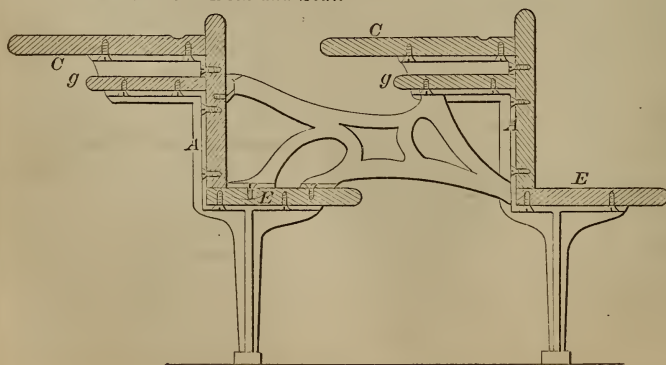
46971—O. B. Hubbard—*Loom.*

46970—A. W. Hall—*Churn.*

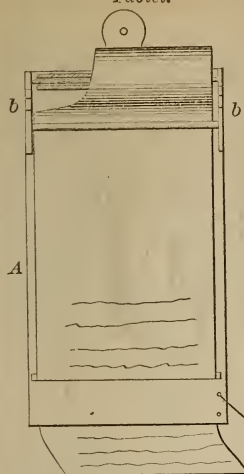


46972—A. Partridge—*Mallet.*46976—W. A. Simonds—*Carbureting Apparatus.*46974—I. C. Pratt—*Gang Plow.*46977—D. Williamson—*Fire Arm.*

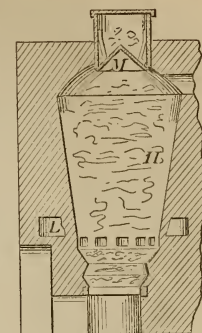
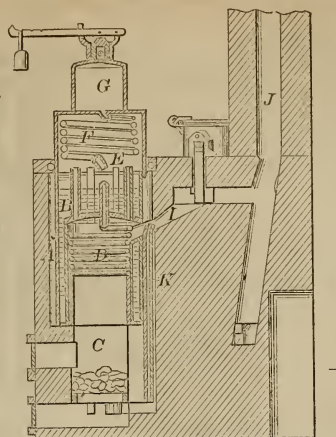
46981—

46980—J. P. Allen—*Desk and Seat.*

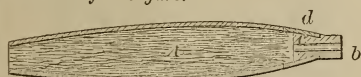
46982—G. Asmus—Writing Tablet.



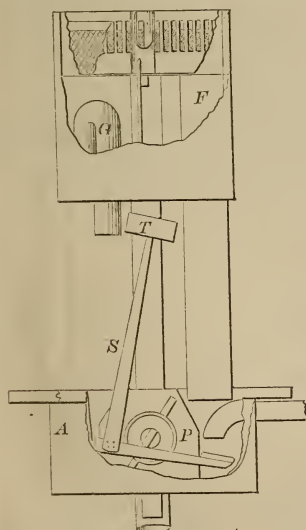
46984—G. W. Baker—Treating Ores.



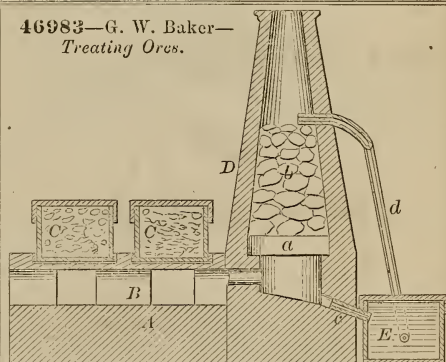
46986—J. Ball—Mouth-Piece for Cigars.



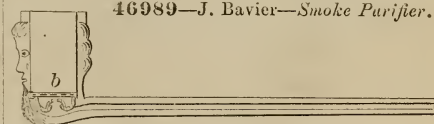
46990—J. B. Benton—Water Meter.



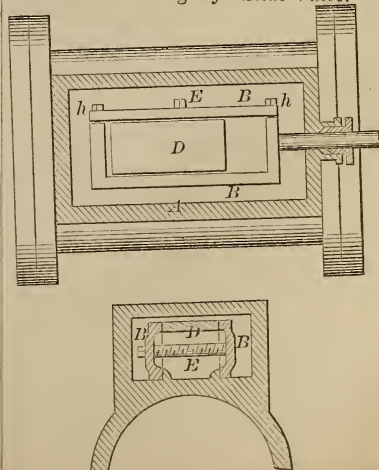
46983—G. W. Baker—Treating Ores.



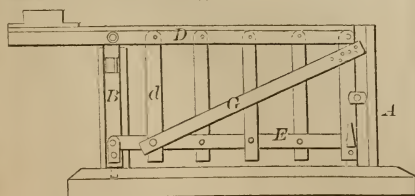
46989—J. Bavier—Smoke Purifier.



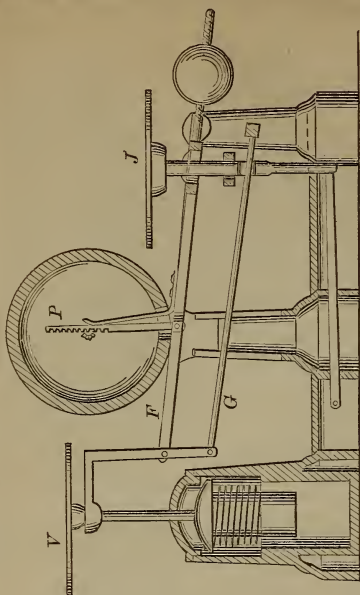
46991—C. H. Brightly—Slide Valve.



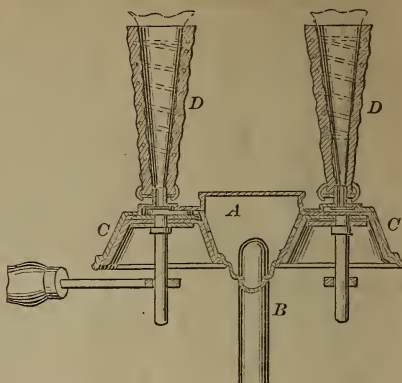
46985—F. Ball—Gate.



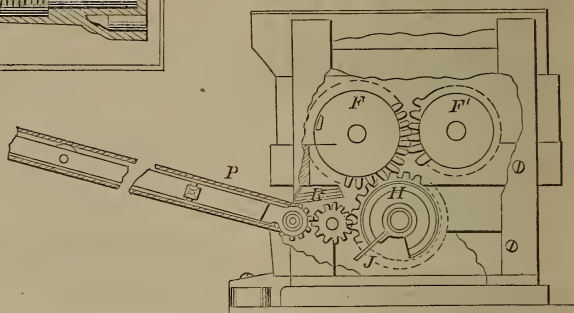
46992—H. A. Clum—Balance.



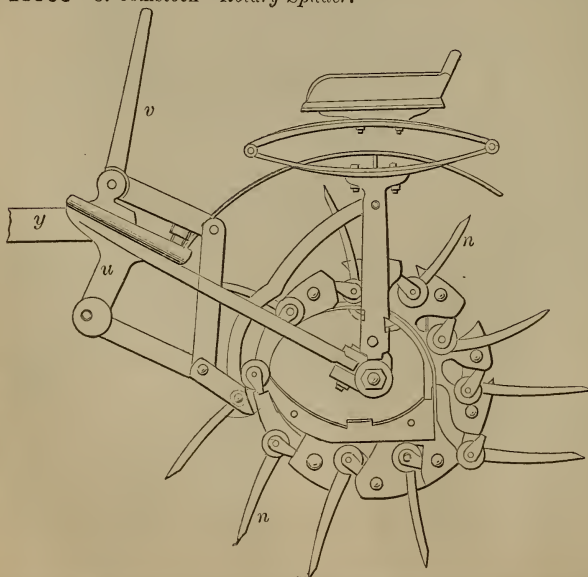
46994—L. O. Colvin—Cow Milker.



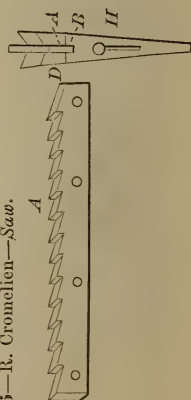
46993—S. Colahan—Hay Baling Machine.



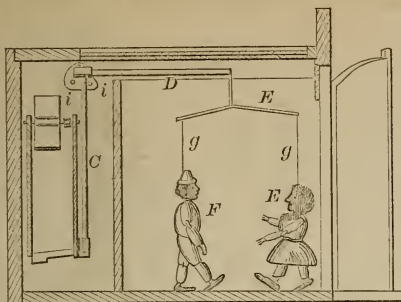
46995—C. Comstock—Rotary Spader.



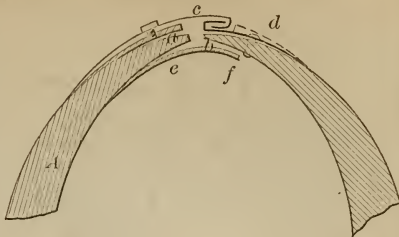
46996—R. Cromelien—Saw.



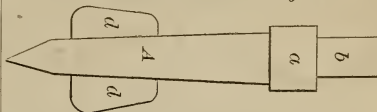
46997—J. M. Cromwell—Dancing Toy.



47900—S. B. Edson—Horse Collar.

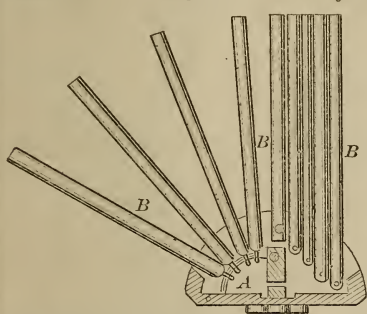


D. R. Erdman—Boring Drill.

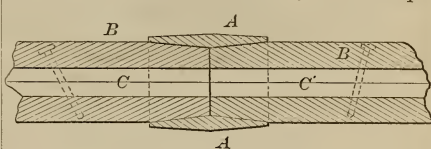


47001—

46999—J. H. Doughty—Clothes Dryer.

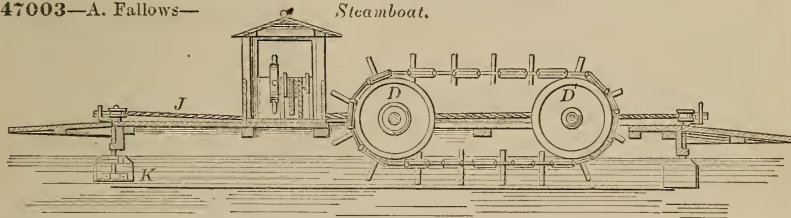


47002—R. Farr—Connection for Water Pipe.

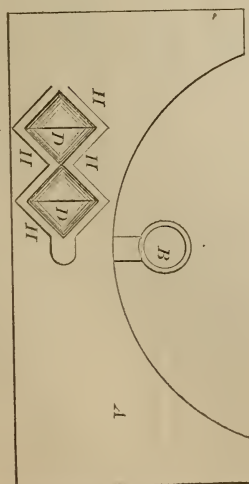


47003—A. Fallows—

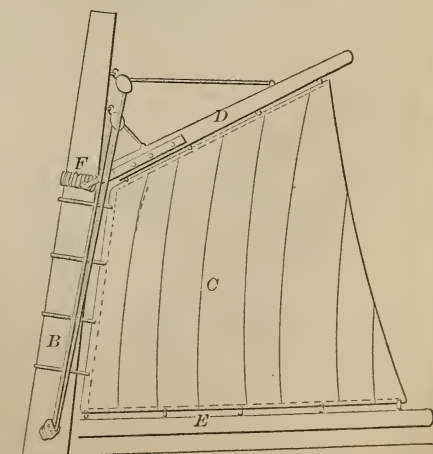
Steamboat.



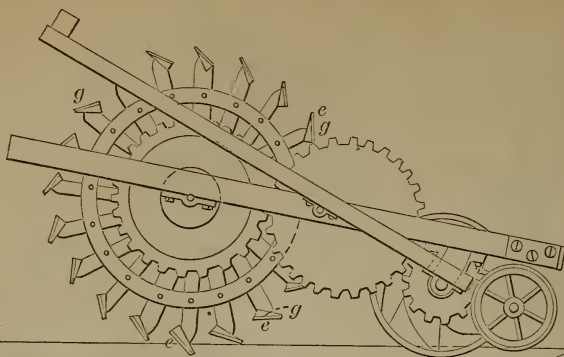
46998—S. M. Davies—Engine Head Light.



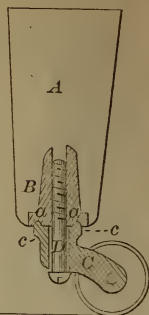
47004—C. R. Fisher—Gaff.



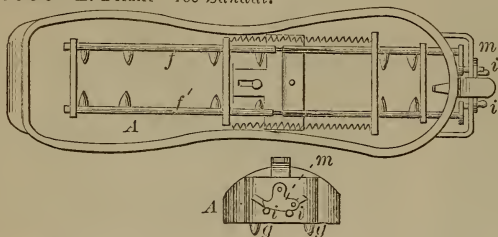
47005—L. S. Fithian—Wheel for Plows.



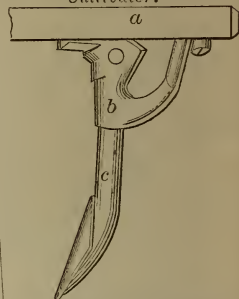
47007—F. G. Ford—Castor.



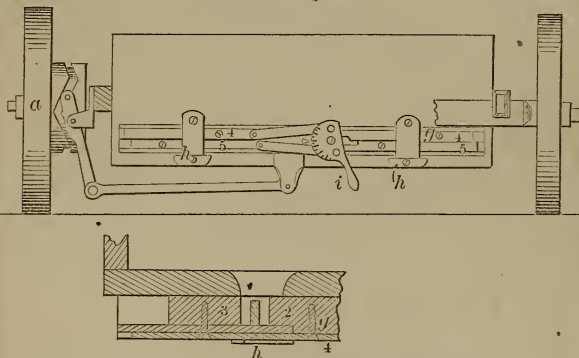
47006—E. Fitzki—Ice Sandal.



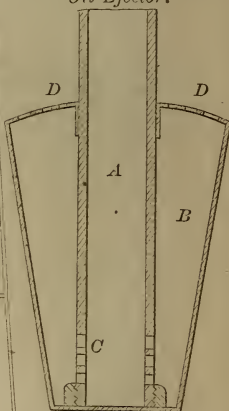
47008—Fowler & Bacon—Cultivator.



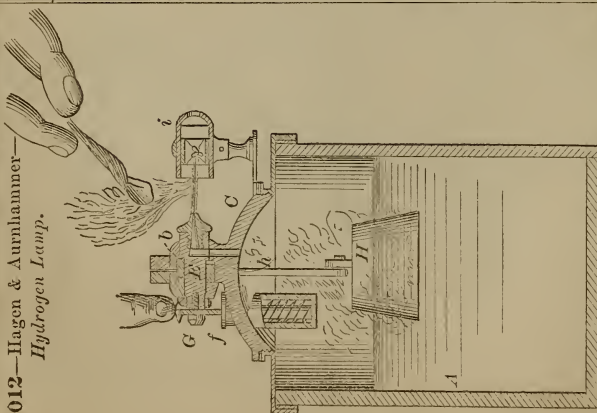
47009—Fowler & Bacon—Seeding Machine.



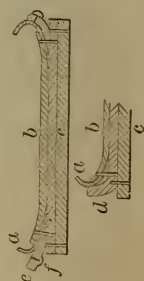
47011—W. R. Greenleaf—Oil Ejector.



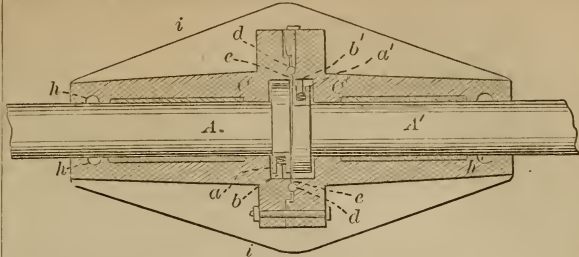
47012—Hagen & Aurnhammer—Hydrogen Lamp.



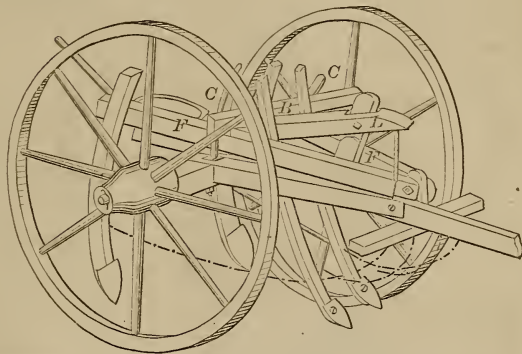
47010—B. D. Godfrey—Boot.



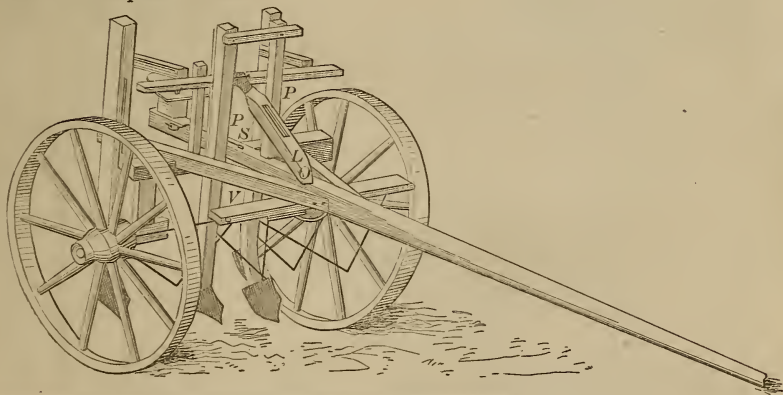
47015—J. W. Hard—Car Axle.



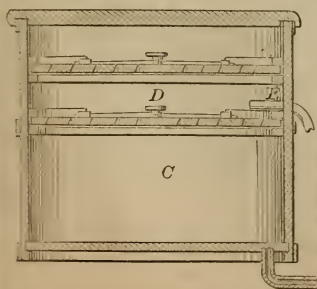
47016—J. Harper—Cultivator.



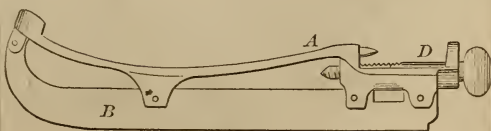
47017—J. Harper—Cultivator.



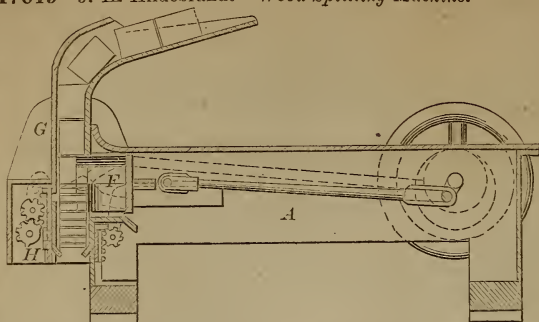
47014—A. Hammer—Brewers' Mash-tun.



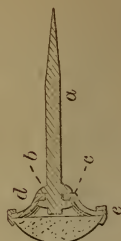
47018—W. Hawkins—Skate.



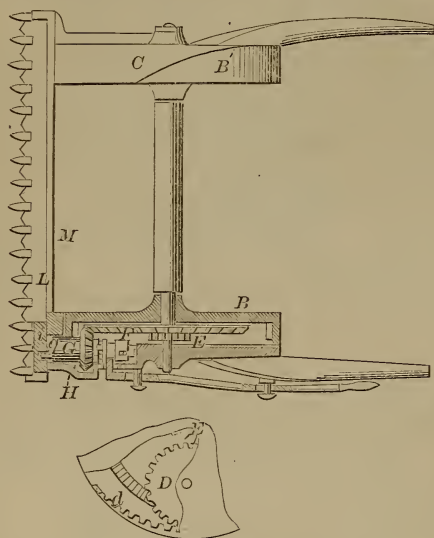
47019—J. H. Hildebrandt—Wood Splitting Machine.



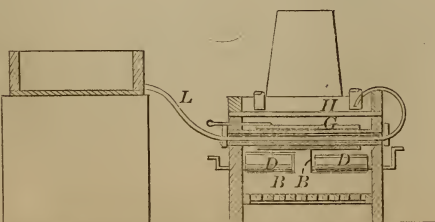
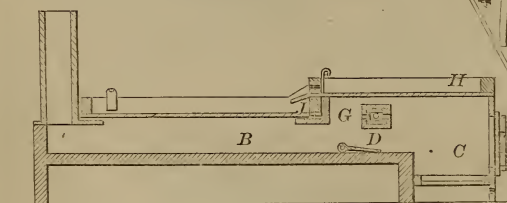
47023—A. D. Judd—Picture Nail.



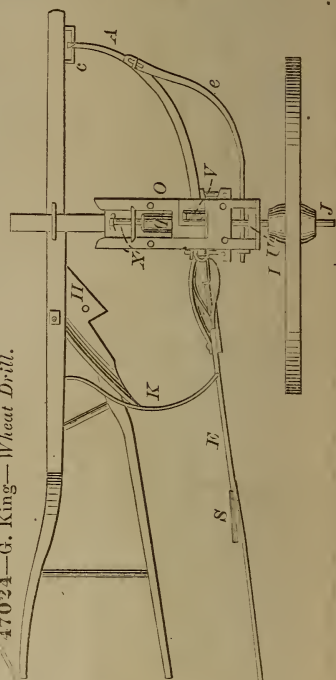
47022—G. W. Jennings—Hand Mowing Machine.



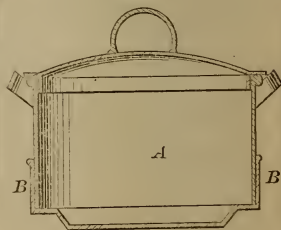
47020—D. H. Iseminger—Sorghum Evaporator.



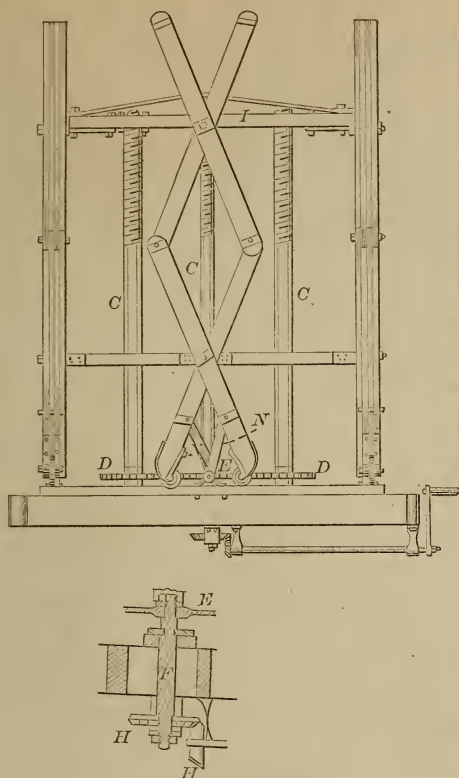
47024—G. King—Wheat Drill.



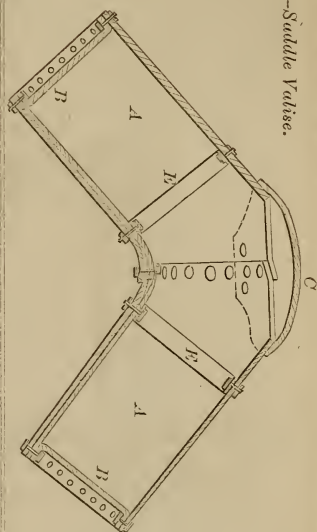
47025—W. Kroeger—Vessel for Boiling.



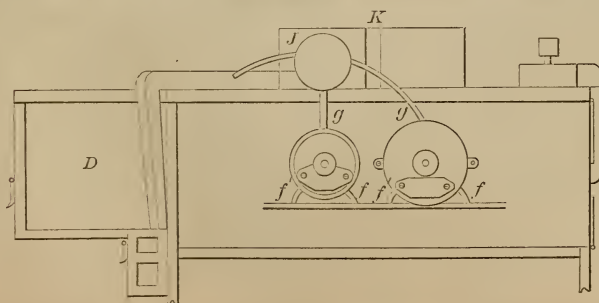
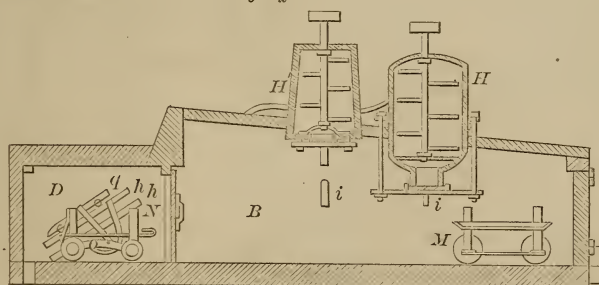
47026—Lamason & King—Signal Tower.



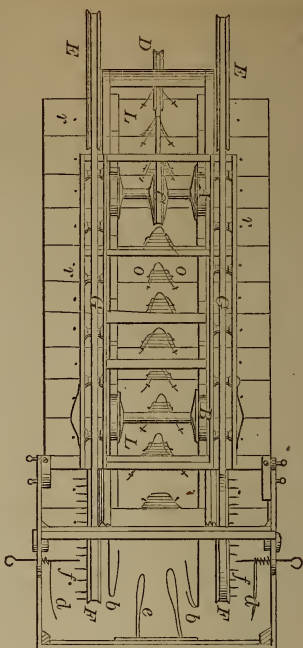
47028—Murray & Topham—Saddle Valve.



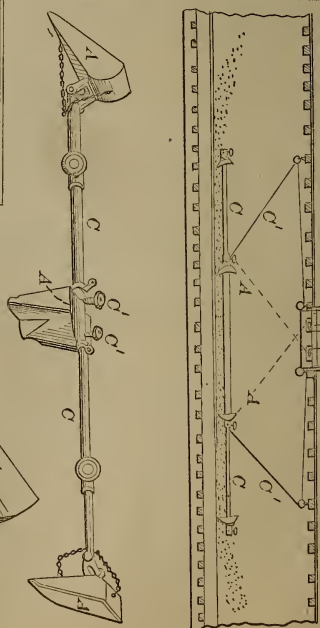
47027—A. W. Louth—Treating Oil.



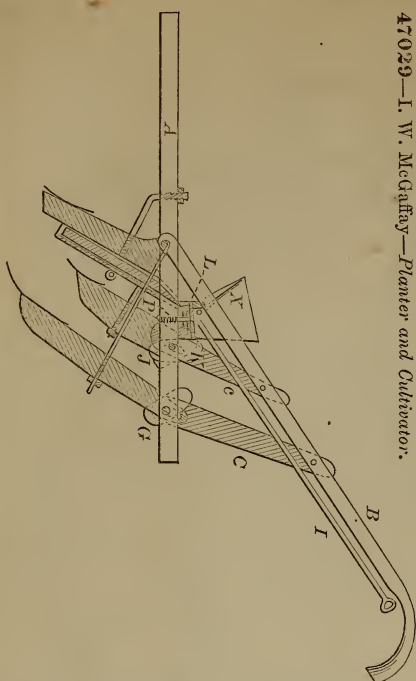
47033—J. L. Nicolai—Automatic Track Layer.



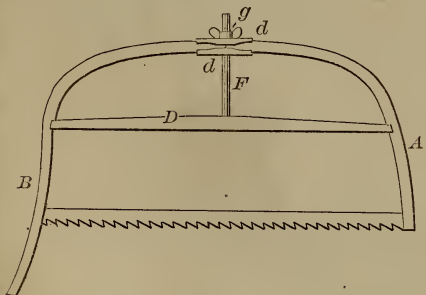
47030—Milson, Spendlow & F. R. Watson—Trimming Cargoes of Grain.



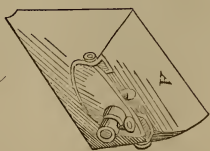
47029—L. W. McGaffay—Planter and Cultivator.



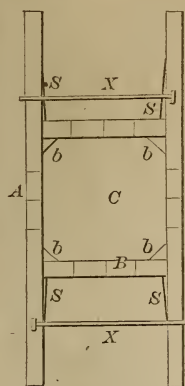
47032—W. Morehouse—Buck Saw Frame.



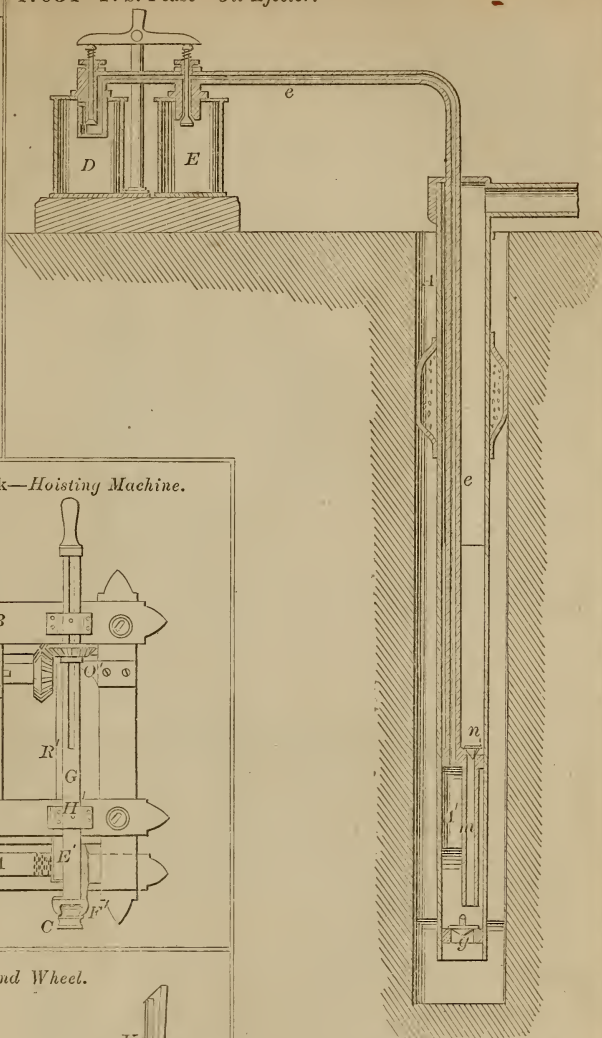
47031—J. R. Moore—Coupling Tool for Drilling.



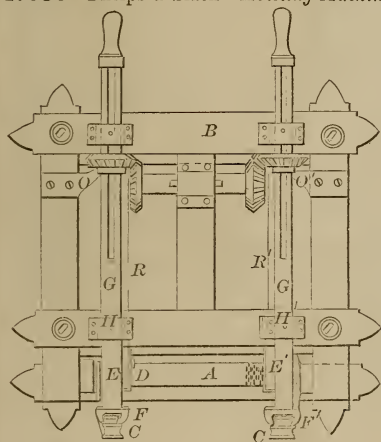
47037—J. W. Phillips—*Wool Press.*



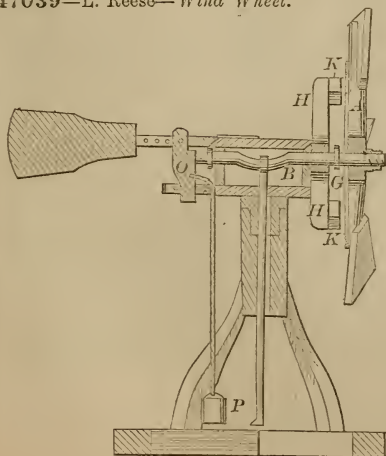
47034—F. S. Pease—*Oil Ejector.*



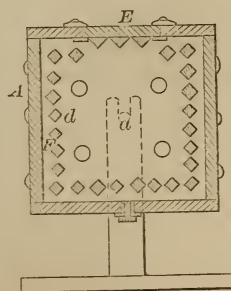
47036—Phelps & Slack—*Hoisting Machine.*



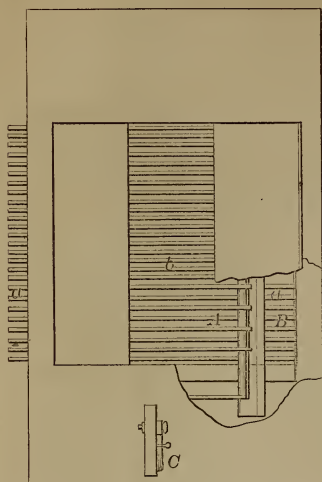
47039—L. Reese—*Wind Wheel.*



47038—S. Safford—*Washing Machine.*



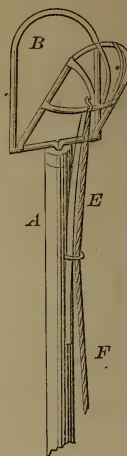
47041—J. A. Robinson—Coal Screen.



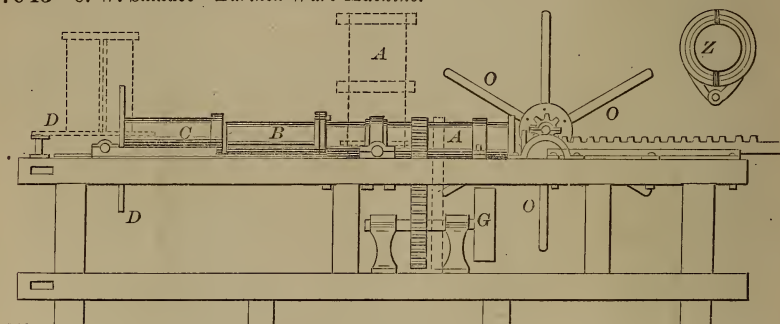
47042—W. F. Rundell—Hay Fork.



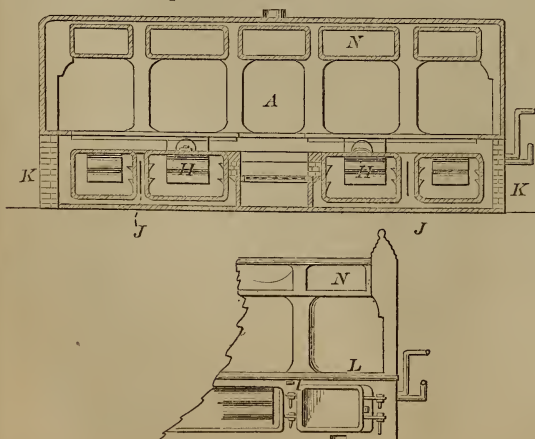
47044—A. Selover—Fruit Gatherer.



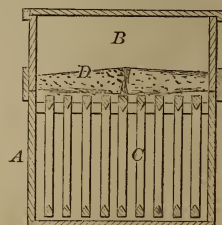
47043—C. W. Saladee—Earthen Ware Machine.



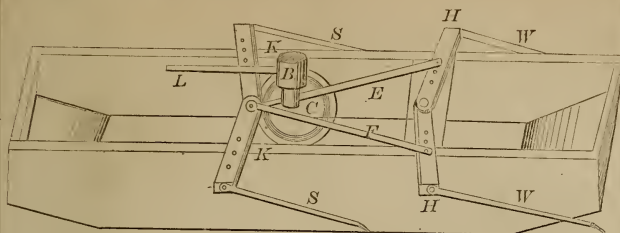
47045—C. J. Shephard—Cooking Range.



47047—O. Sprague—Bee Hive.



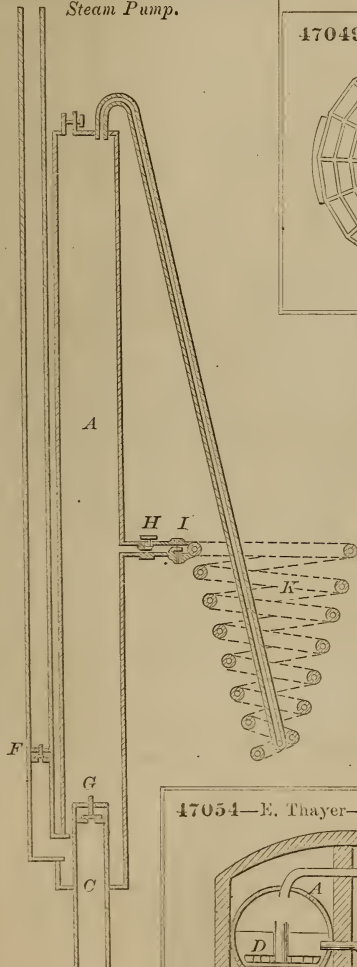
47048—A. F. Stelle—*Pole Propeller.*



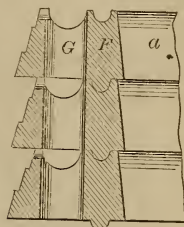
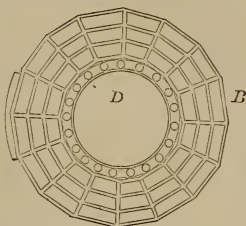
47050—T. Stockton—*Dough
Kutser.*



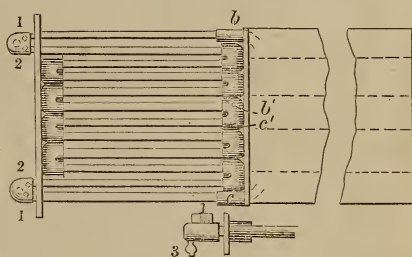
47051—E. Thayer—*Automatic
Steam Pump.*



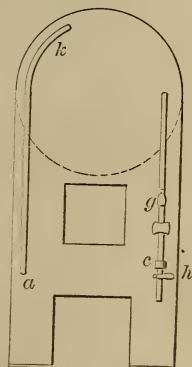
47049—P. P. Stewart—*Store.*



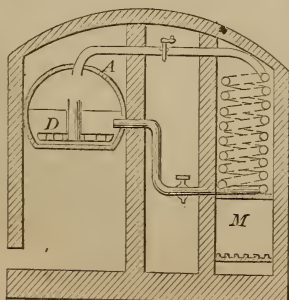
47052—E. Thayer—*Grate Bar.*

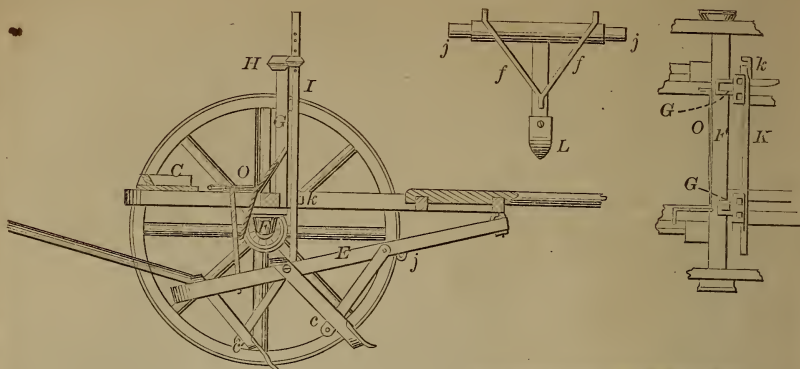
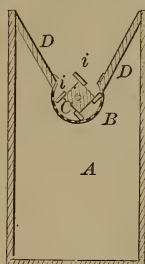
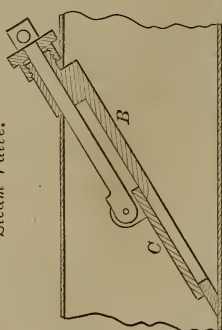
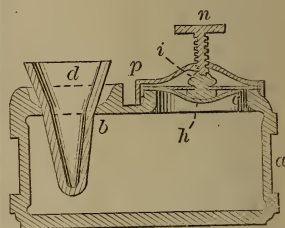
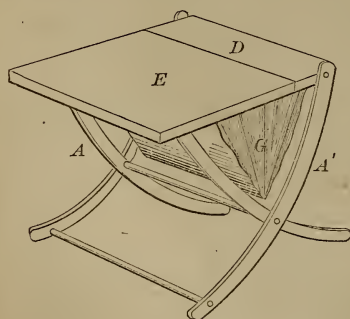
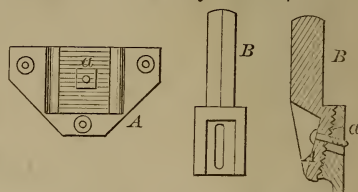
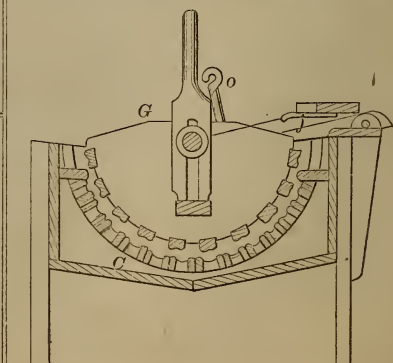


47053—E. Thayer—*Tubular
Grate.*

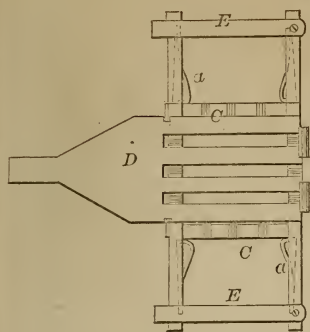


47054—E. Thayer—*Steam Generator.*

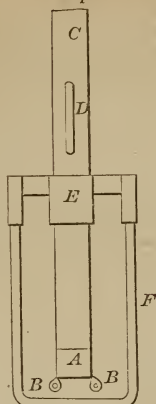


47055—Thomas & Mast—*Cultivator.*47056—H. Tilden—*Flour Sifter.*47057—Treadway & Warner—*Steam Valve.*47060—W. A. Wheeler—*Fountain Inkstand.*47058—J. Trevor—*Desk and Table.*47059—B. B. Whaley—*Flask Pin.*47062—B. Wright—*Washing Machine.*47063—N. F. English—*Photographic Picture Frame.*

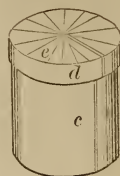
47064—R. Green—Wool Press.



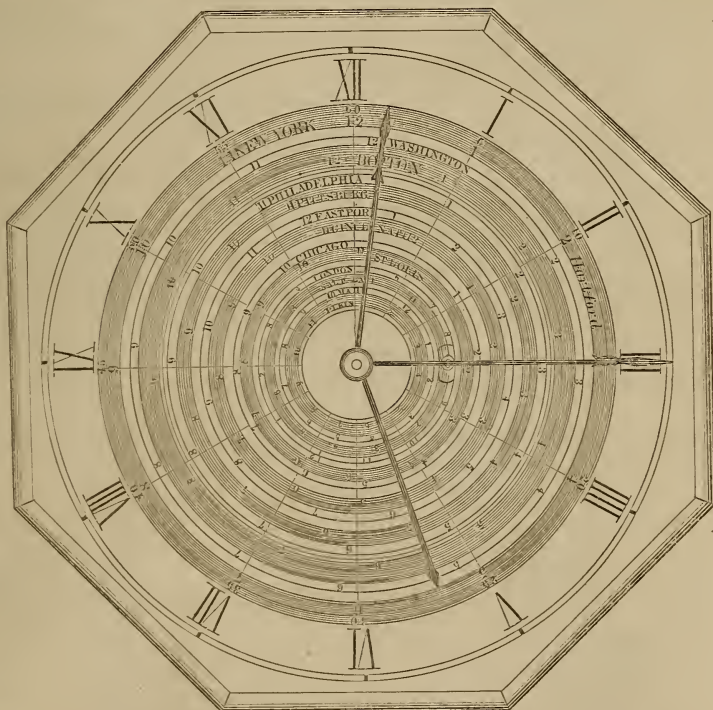
47066—J. & H. R. Lee—Mop.



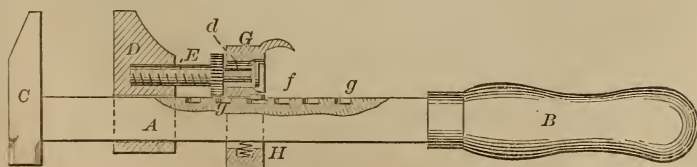
47069—J. W. Millet—Paper Box.



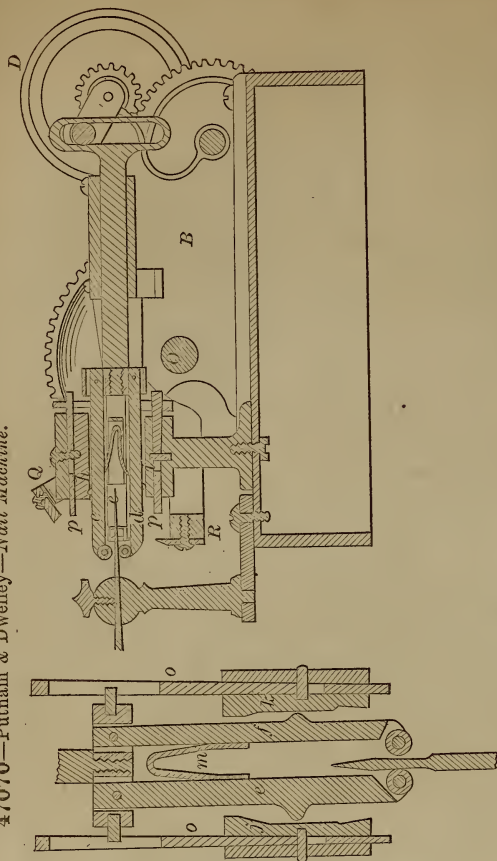
47065—A. W. Hall—Time Piece.



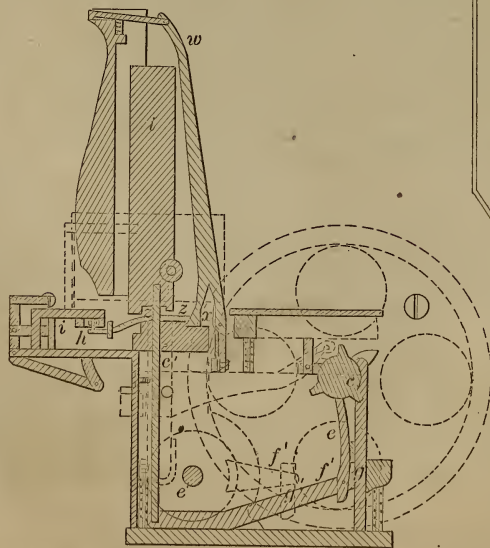
47067—A. Y. McDonald—Wrench.



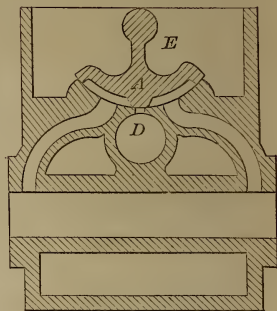
47070—Putnam & Dwelley—Nail Machine.



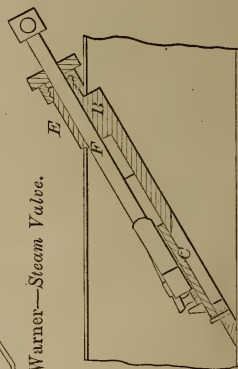
47071—A. J. Roberts—*Horse Shoe Machine.*



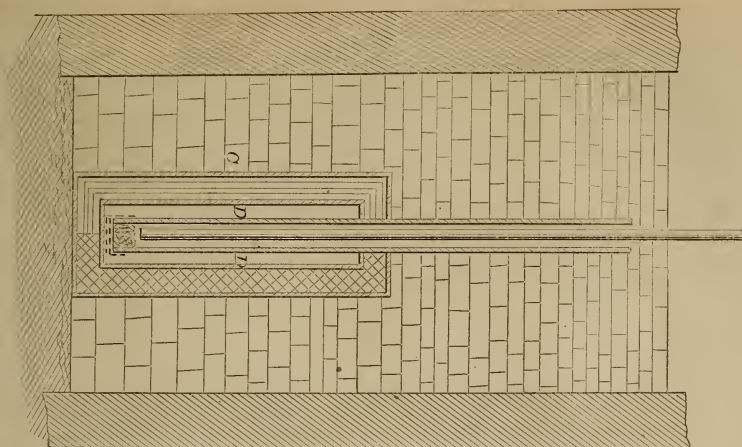
47072—J. E. Thorpe—*Steam Valve.*



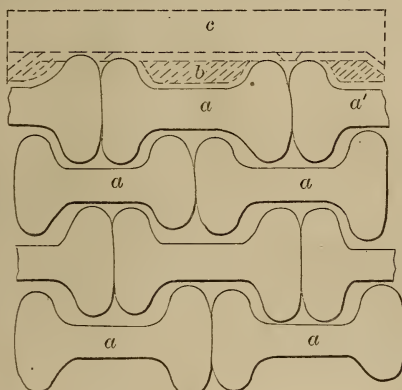
47073—S. R. Warner—Steam Valve.



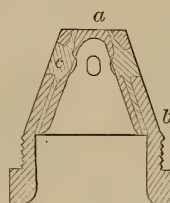
47074—E. Andries—Filter.



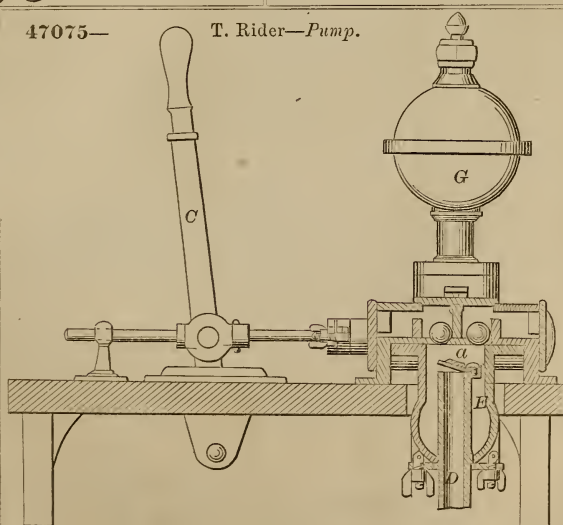
47077—F. W. Webb—Construction of Fagots.



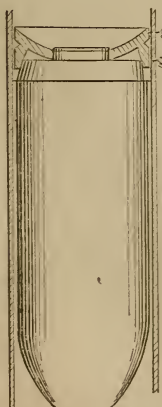
47076—J. Smith—Fusible Plug for Boilers.

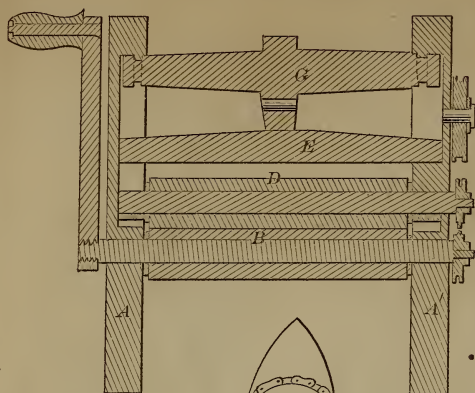
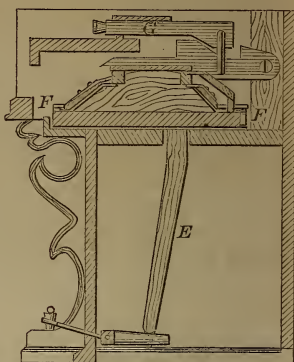
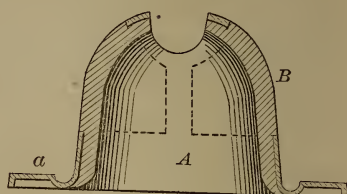
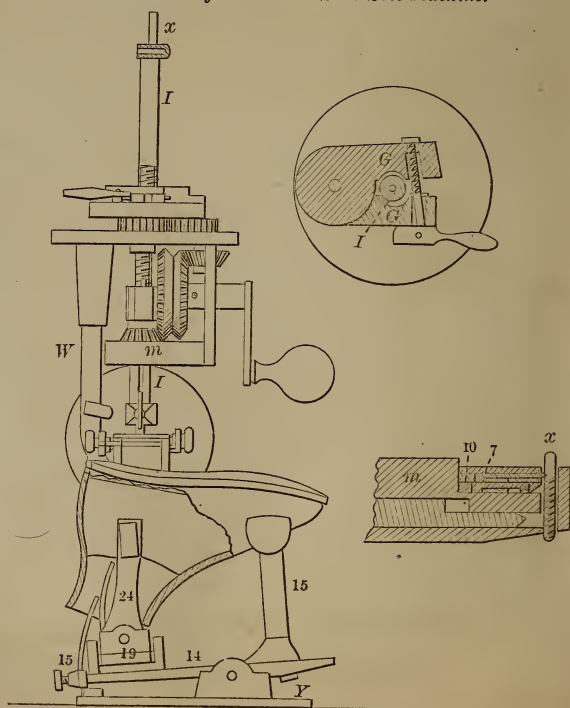


47075— T. Rider—Pump.

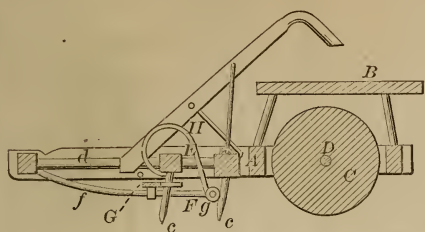


47078—C. Arick—Packing Projectiles.

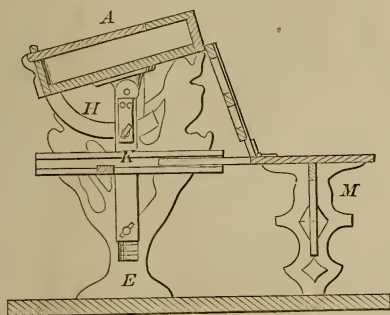


47079—C. H. Amidon—*Wringing Machine.*47081—T. Atkins—*Cabinet Organ.*47080—L. L. Arnold—*Cigarette.*47087—C. H. Buchelew—*Lamp.*47085—J. Blakeney—*Boot and Shoe Sole Machine.*47086—J. B. Bowditch—*Bed Bottom.*

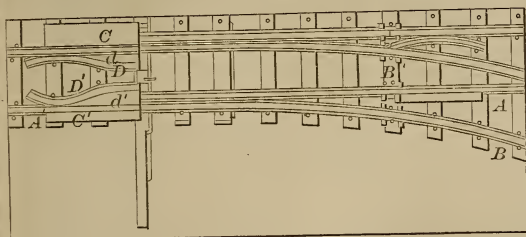
47090—W. H. Converse—*Harrow and Roller.*



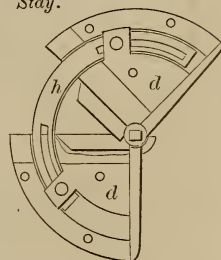
47093—W. Disbrow—*Seat and Desk.*



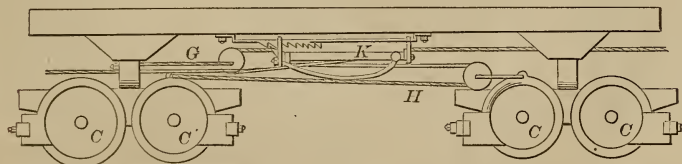
47089—J. W. Colwell—*Railroad Switch.*



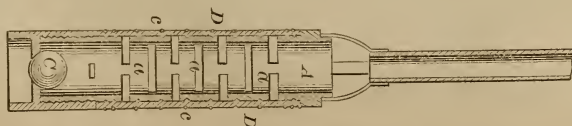
47092—J. M. Dailey—*Trunk Stay.*



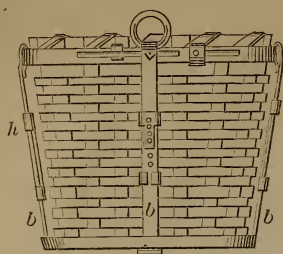
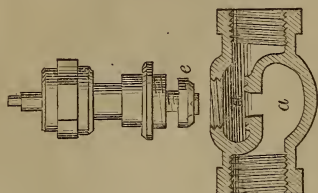
47091—D. S. Cross—*Car Brake.*



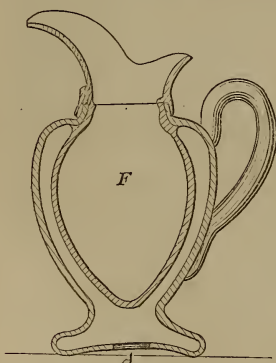
47095—W. F. Dodge—*Pump Piston.*



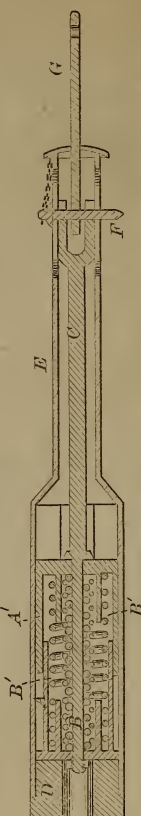
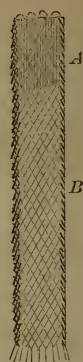
47096—P. Eley—Basket.

47097—S. D. Fales—
Valve Cock.

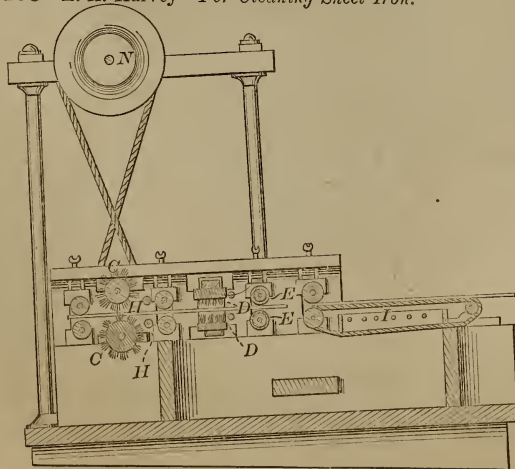
47101—J. W. Haines—Silvering Glass.



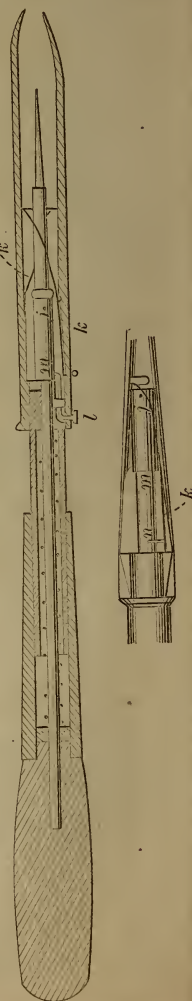
47098—R. Fiegl—Railroad Draft Bar.

47100—Furlong & Lang—
Lamp Wicks.

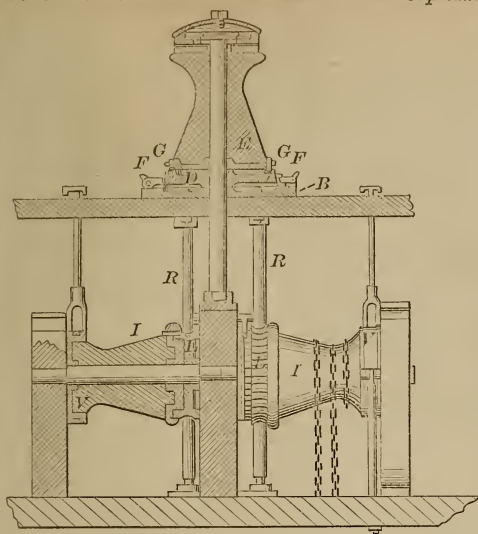
47103—E. A. Harvey—For Cleaning Sheet Iron.



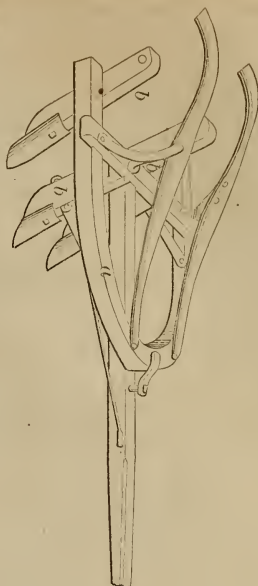
47102—D. F. Hartford—Screw Driver and Toezeers.



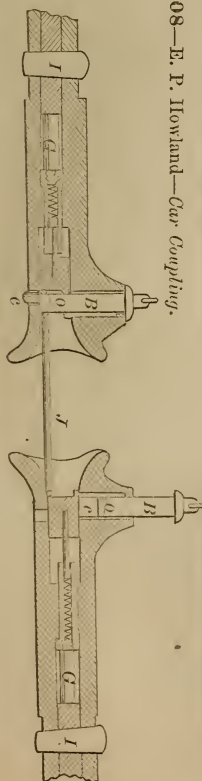
47104—Heitman & Radican—Windlass and Capstan.



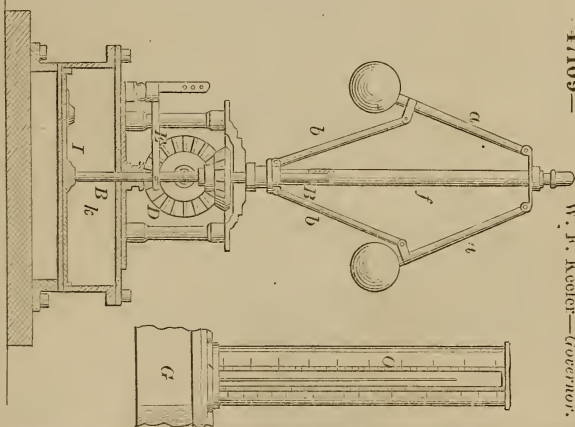
47105—Hassonplug & Barnhart—Cultivator.



47108—E. P. Howland—Car Coupling.



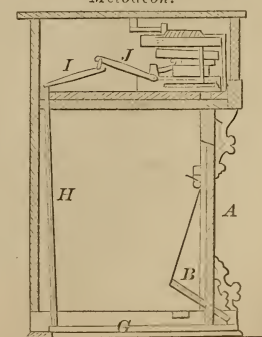
47109—W. F. Keeler—Governor.

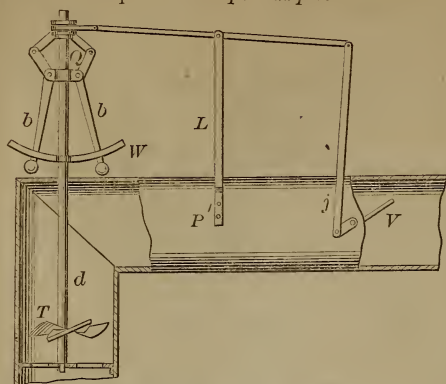
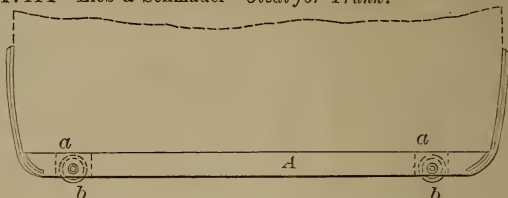
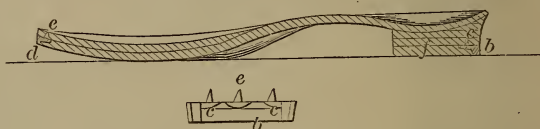
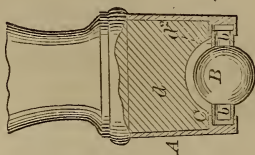
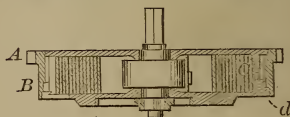
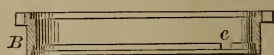
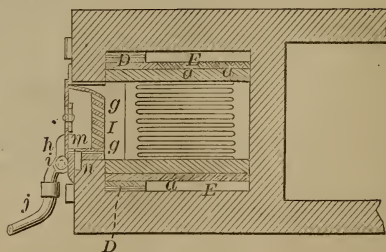
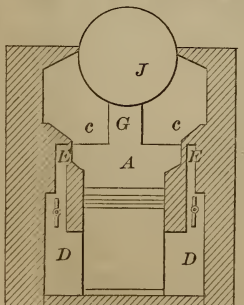


47106—W. P. L. Herr—Vegetable Scoop.

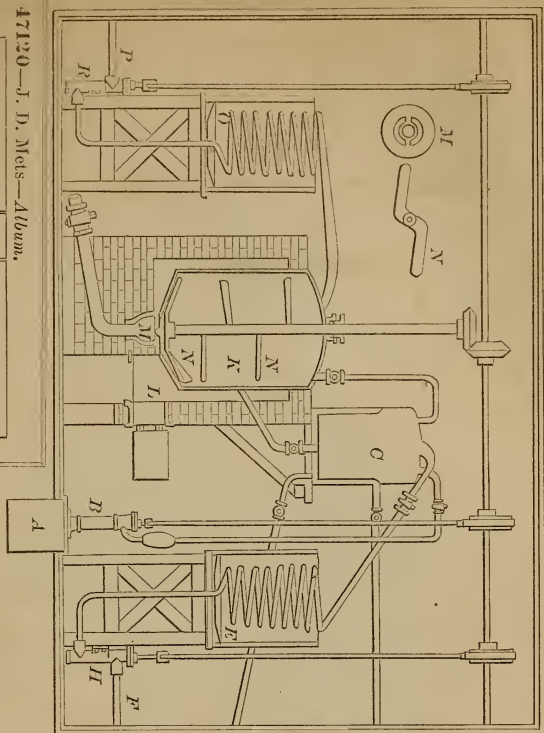


47110—Kinnard & Drelur—Melodicon.



47111—H. Kipe—*Stove Pipe Damper.*47112—R. Krause—*Matress.*47113—W. J. Lewis—*For making Bolts.*47114—Lieb & Schmadel—*Cleat for Trunk.*47115—I. E. Loughborough—*Plate for Boots and Shoes.*47117—W. T. Mosseron—*Furniture Caster.*47116—G. C. Marten—*Watch.*47118—J. A. Miller—*Boiler Furnace.*47119—I. B. & W. H. Miller—*Piston Packing.*

47125—Perkins & Burnett—Distilling Petroleum.



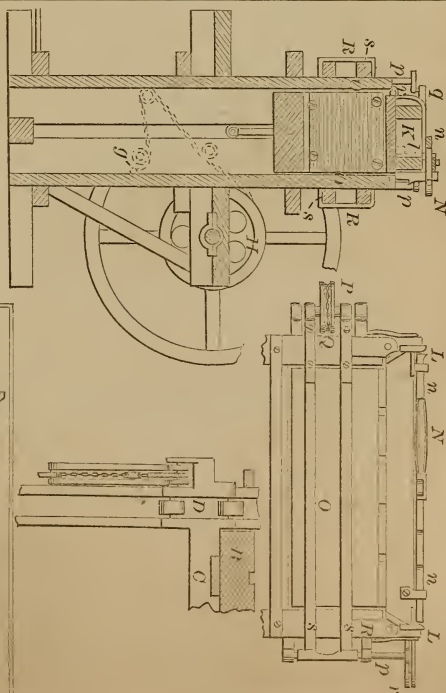
47120—J. D. Mearns—Album.



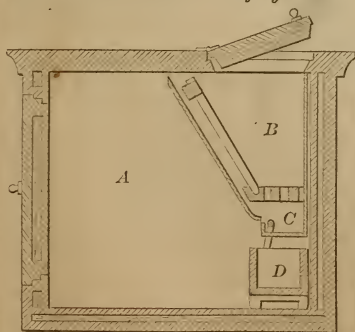
47122—A. Morton—Steam Engine Valve.

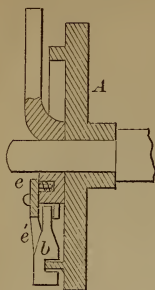
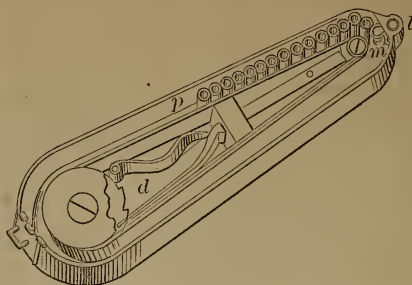
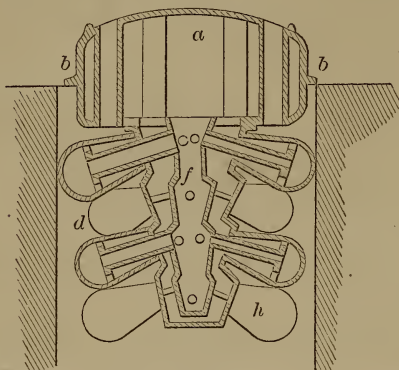
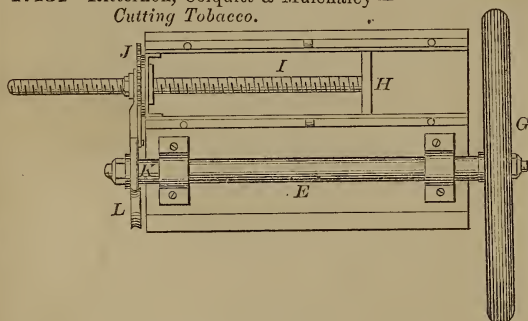
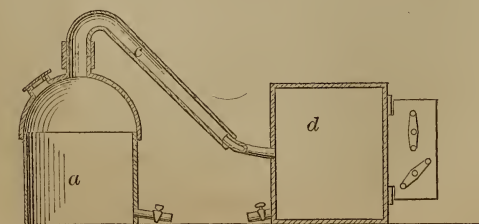
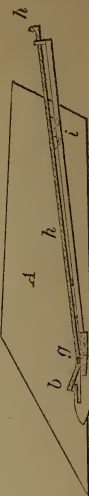
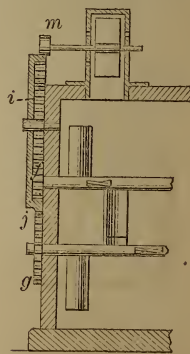
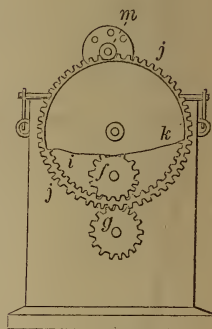


47124—G. C. Paine—Baling Press.

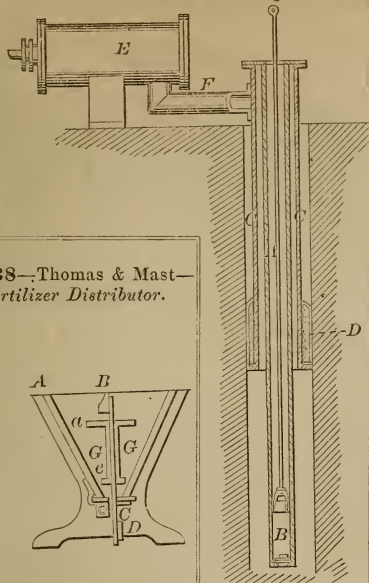


47123—O. E. Mosher—Refrigerator.

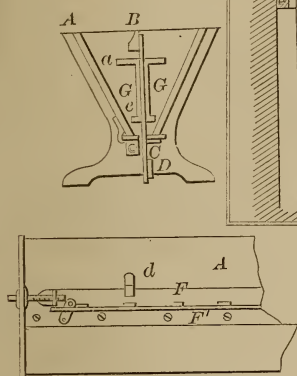


47126—O. C. Phelps—*Feed Wheel.*47127—R. S. Pickett—*Percussion Cap Holder.*47130—E. Reynolds—*Steam Boiler.*47131—Ritterhoff, Colquitt & Mulchaley—*Cutting Tobacco.*47132—L. S. Robbins—*Preserving Wood.*47128—A. Rank—*Harvester.*47129—J. Rankin—*Churn.*

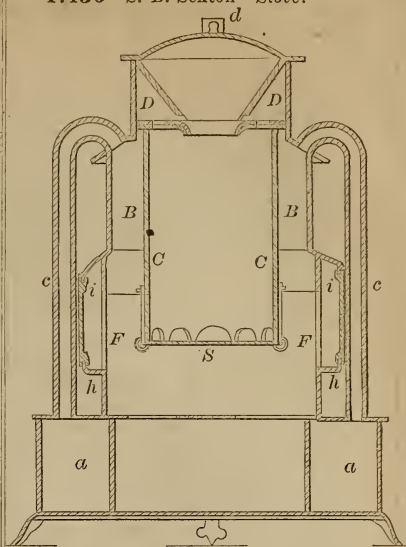
47133—J. B. Root—Oil Well Pump.



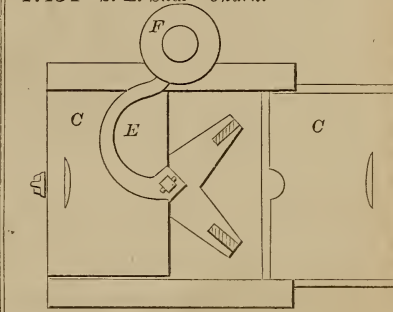
47138—Thomas & Mast—Fertilizer Distributor.



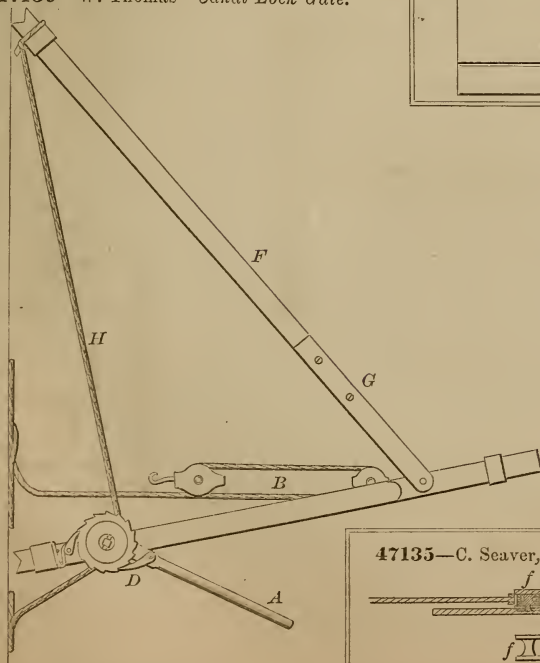
47136—S. B. Sexton—Stove.



47134—S. E. Saul—Churn.



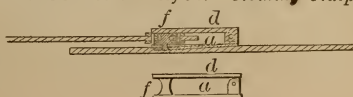
47139—W. Thomas—Canal Lock Gate.



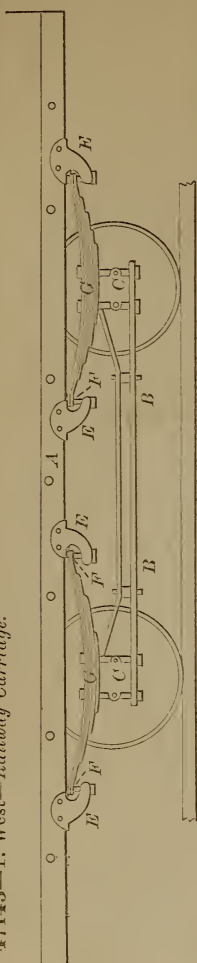
47137—J. Sutherland—Propeller.



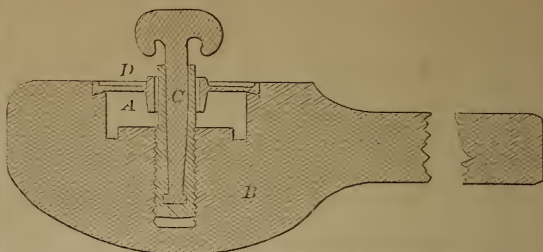
47135—C. Seaver, Jr.—Clothing Clasp.



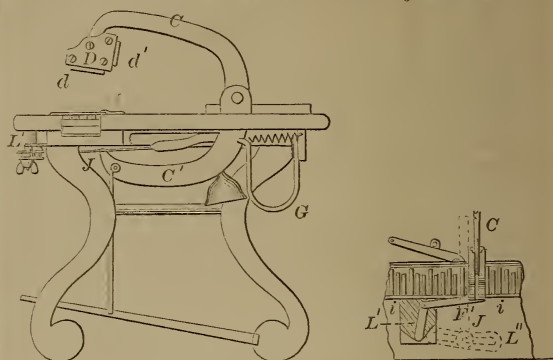
47143—T. West—Railway Carriage.



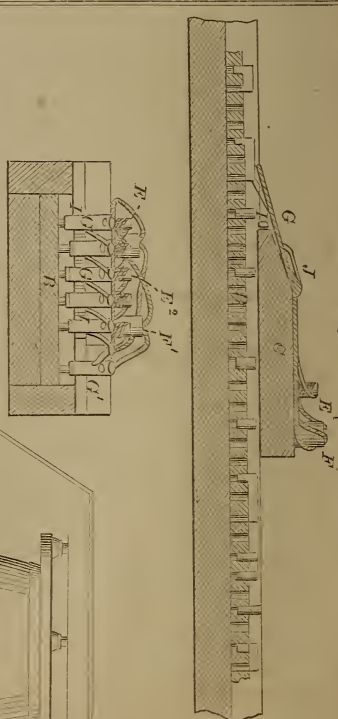
47141—S. F. Van Choate—Telegraph Insulator.



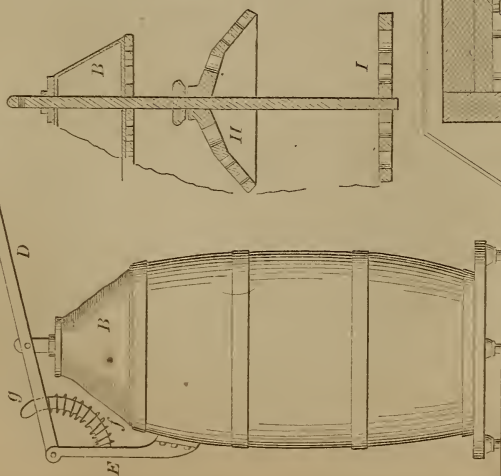
47142—N. E. & G. W. Warren—Addressing Machine.



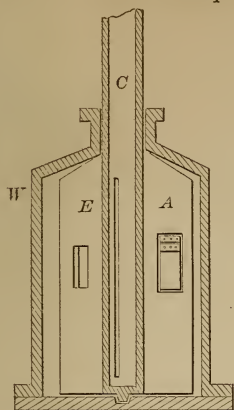
47144—L. Wesson—Electro-Magnetic Musical Instrument.



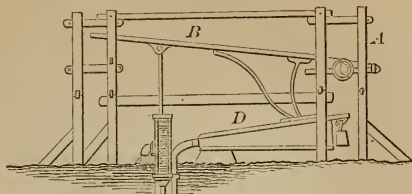
47145—H. P. Westcott—Churn.



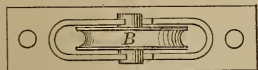
47146—J. F. White—*Pump.*



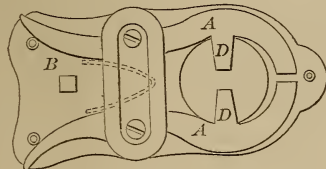
47148—Witsil & Burke—*Oil Ejector.*



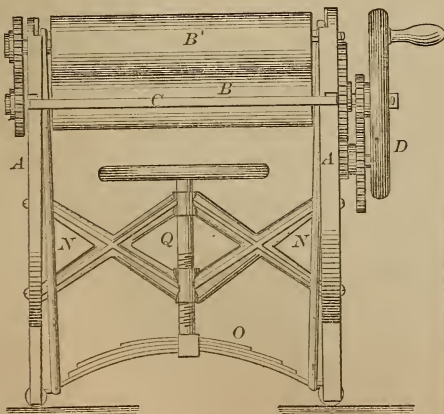
47150—M. E. Ames—*Window Cord Pulley.*



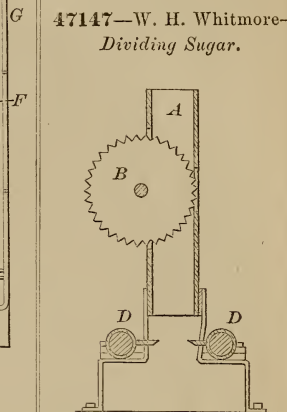
47149—O. O. Woodruff—*Bow Pin.*



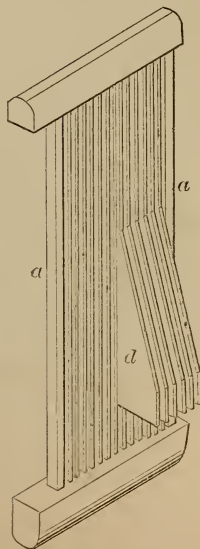
47152—J. Johnson—*Mangle.*



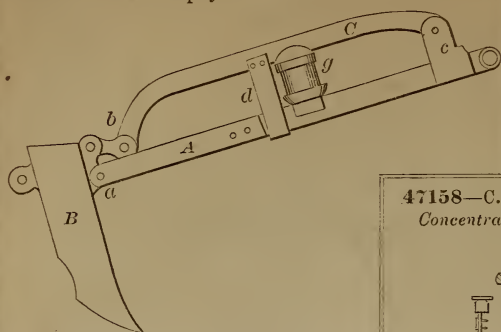
47147—W. H. Whitmore—*Dividing Sugar.*



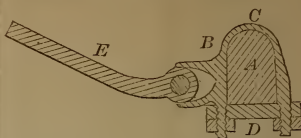
47151—J. Connor—*Weaving Button Holes.*



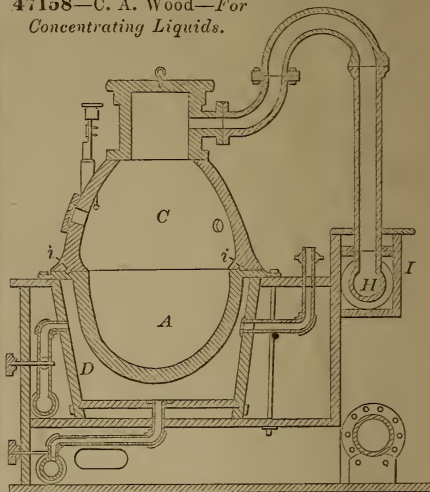
47153—G. M. Murphy—Seed Drill.



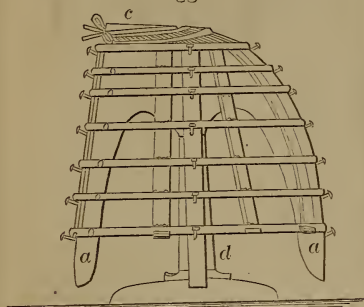
47154—F. B. Morse—Shaft Couplings for Carriages.



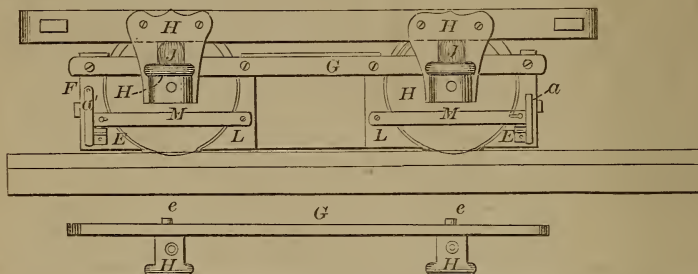
47158—C. A. Wood—For Concentrating Liquids.



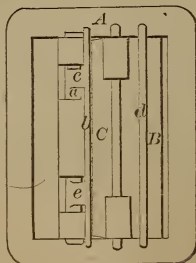
47155—D. E. Rugg—Skeleton Skirt.



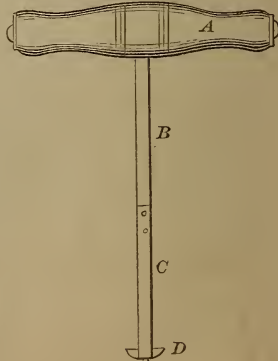
47156—S. Valle—Railway Car.



47159—Woodman & Hatfield—Buckle.



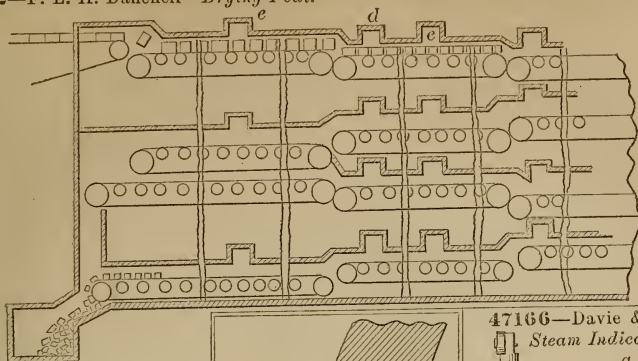
47161—Bielefeld & Schwartz—Cork Pull.



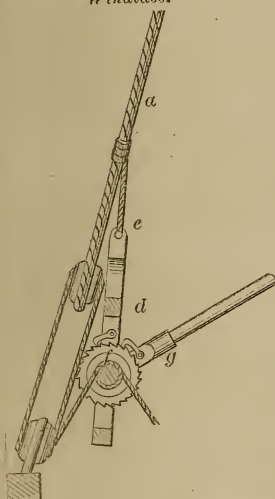
47157—A. M. White—Brush.



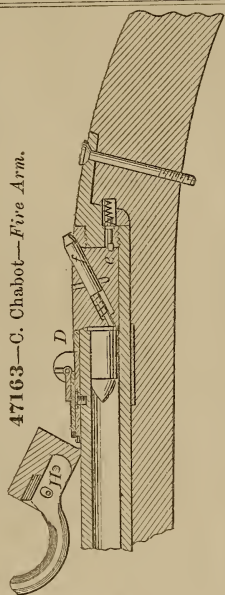
47162—F. L. H. Danchell—Drying Peat.



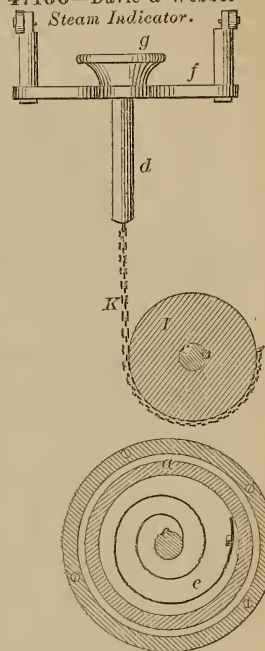
47164—J. G. Codmus—Windlass.



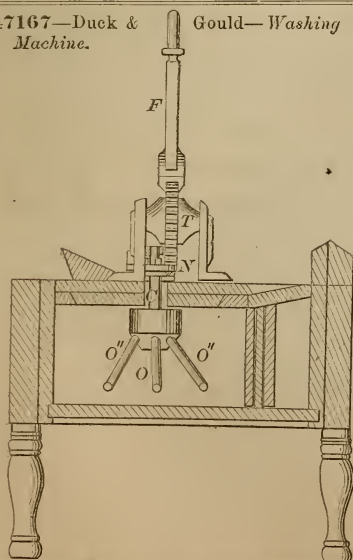
47163—C. Chabot—Five Arm.



47166—Davie & Webber—Steam Indicator.

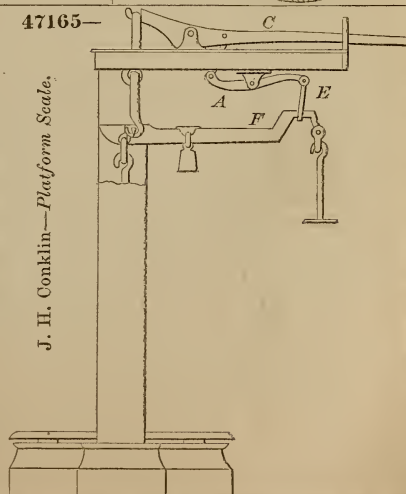


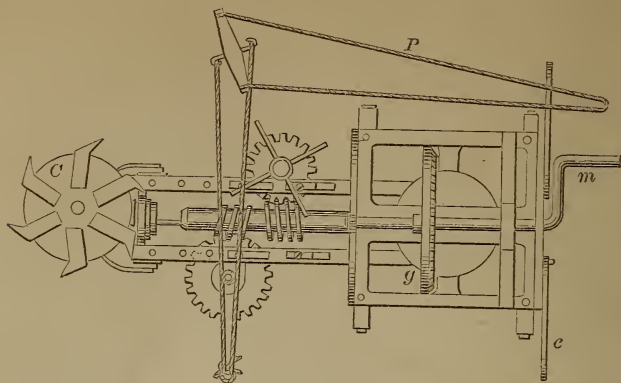
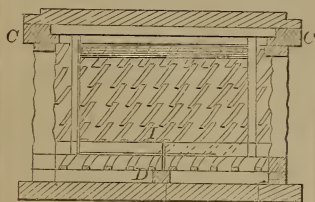
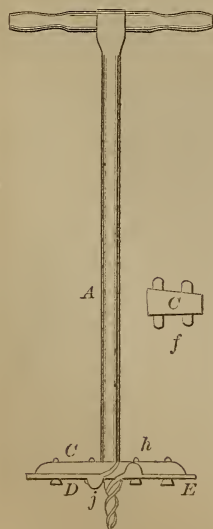
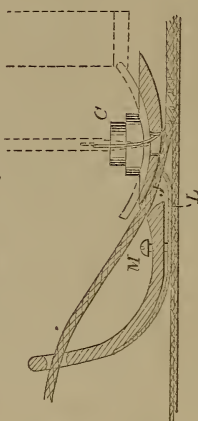
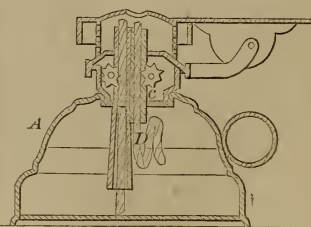
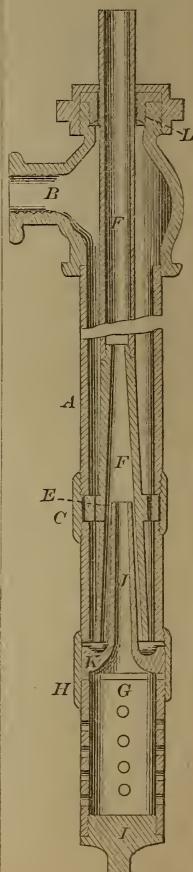
47167—Duck & Gould—Washing Machine.



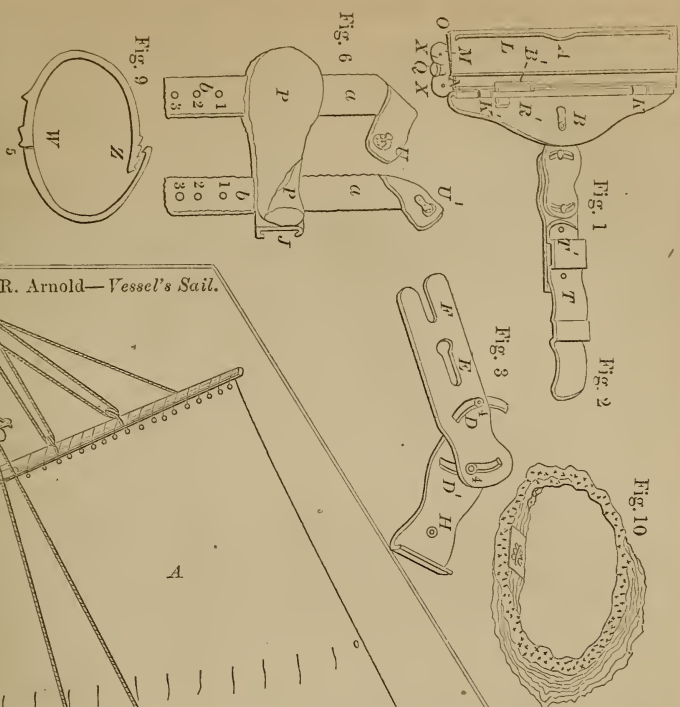
47165—

J. H. Conklin—Platform Scale.

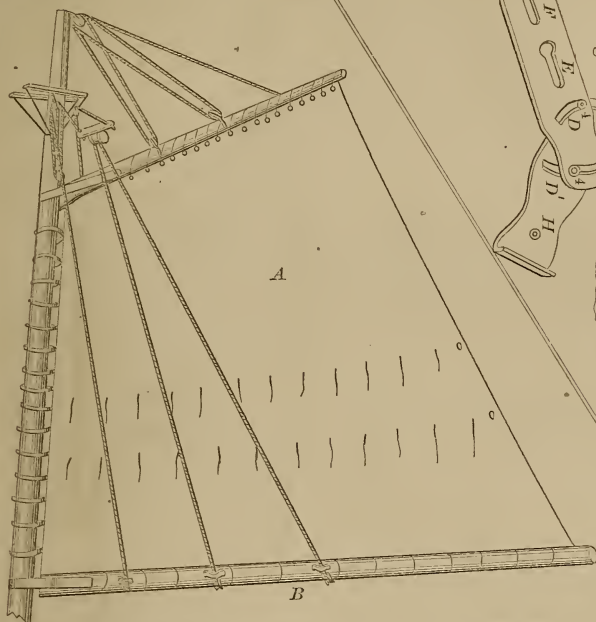


47168—Haupt & Smith—*For Mining and Tunneling.*47169—W. Henschen—*Bee Hive.*47172—D. Ring—*Ground Auger.*47171—L. Planer—*Sewing Machine.*47173—T. S. Speakman—*Lamp.*47174—
Turrell, Stanton &
Ward—*Oil Ejector.*

47175—T. Weaver—Writing Tablet.

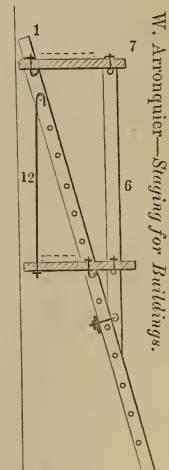


47178—D. R. Arnold—Vessel's Sail.

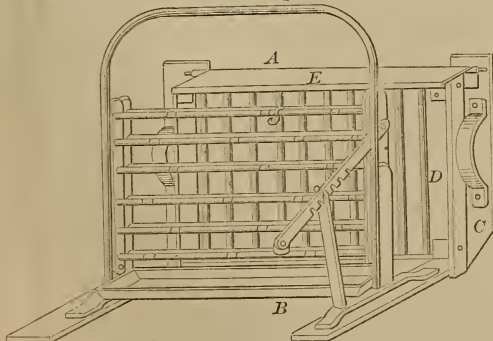


47179—

W. Aronquer—Staging for Buildings.



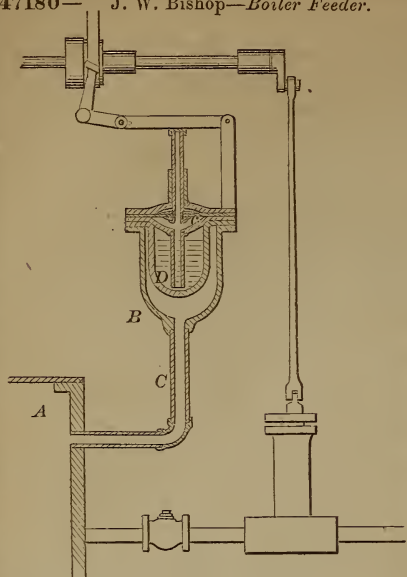
47176—J. W. Wetmore—Movable Fireplace.



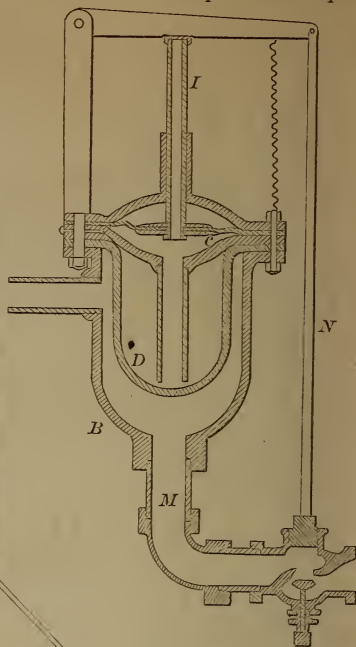
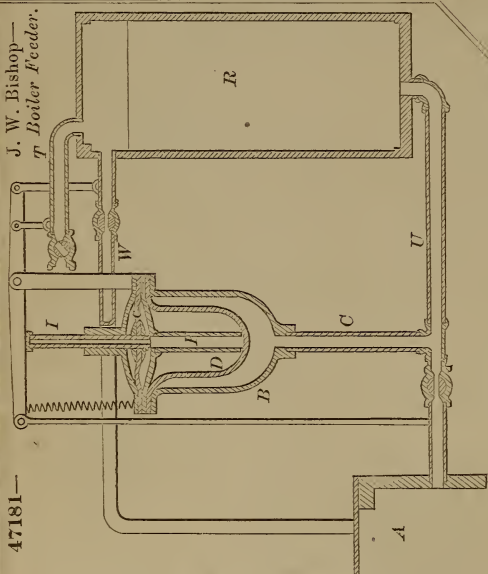
47177—H. Ames—Ordnance.



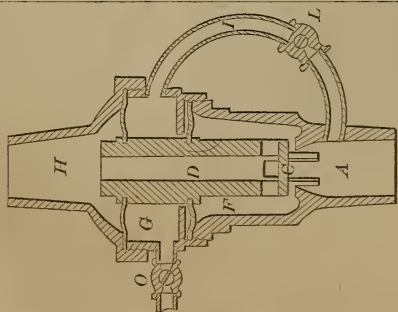
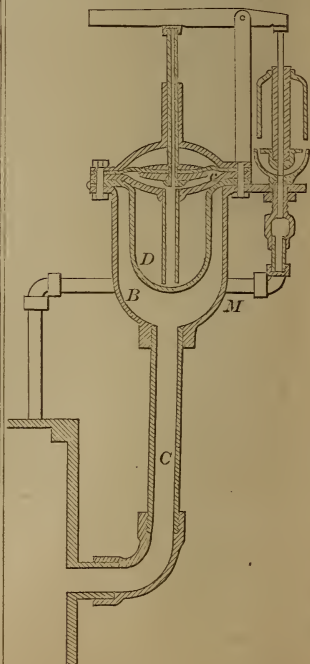
47180—J. W. Bishop—Boiler Feeder.



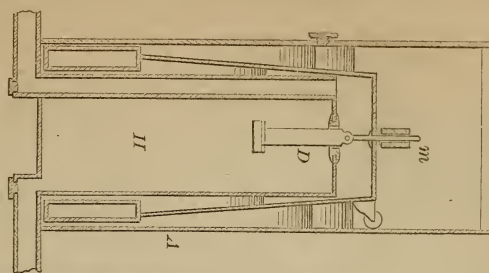
47182—J. W. Bishop—Steam Trap.

J. W. Bishop—
Water Feeder.

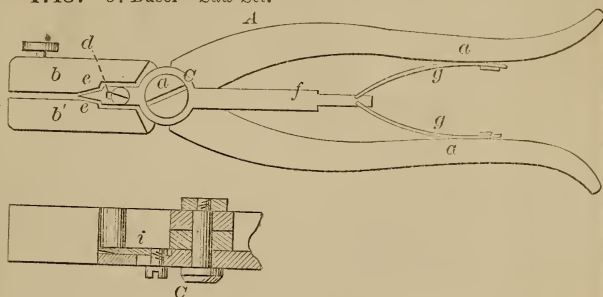
47181—

47184—J. W. Bishop—Water
Regulator.47183—J. W. Bishop—Water
Indicator.

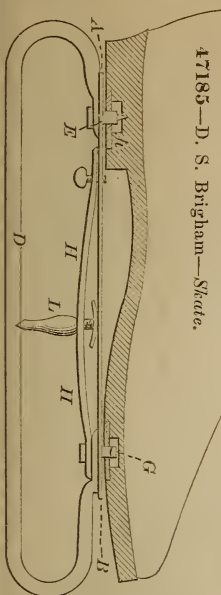
47189—C. M. Cresson—Gas Regulator.



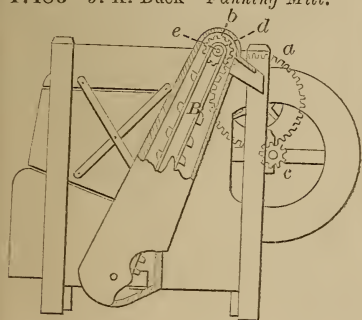
47187—J. Buser—Saw Set.



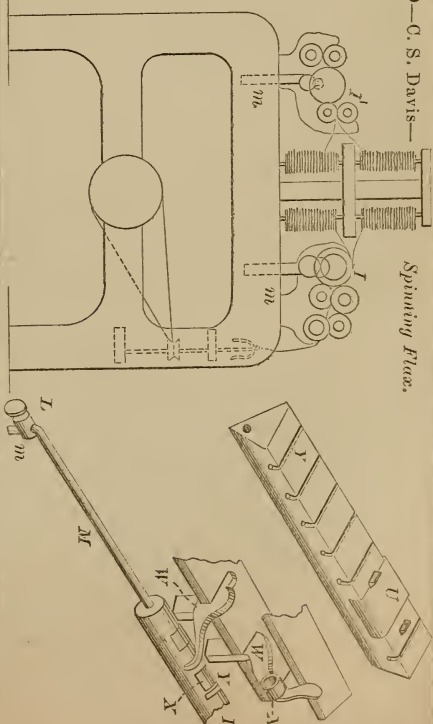
47185—D. S. Brigham—Slide.



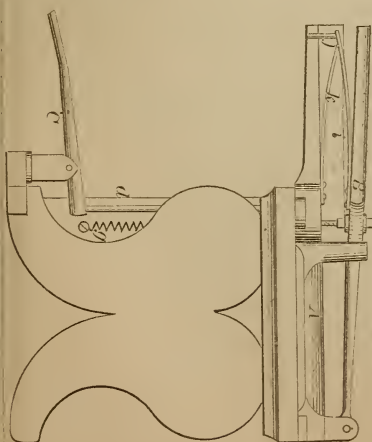
47186—J. K. Buck—Fanning Mill.

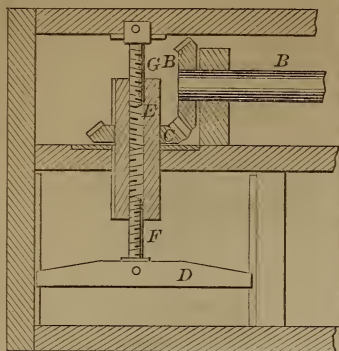
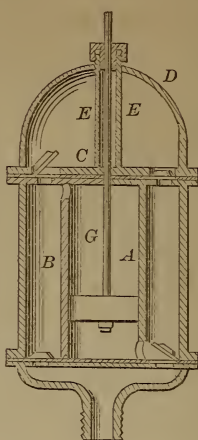


47190—C. S. Davis—Spinning Flax.

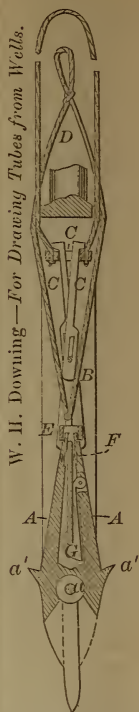
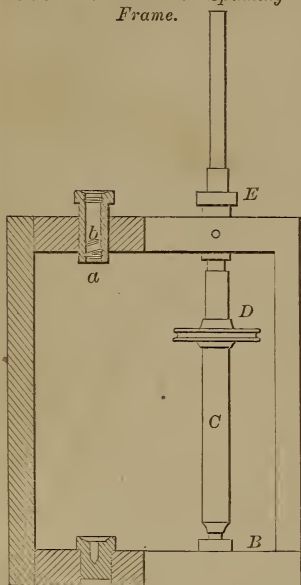
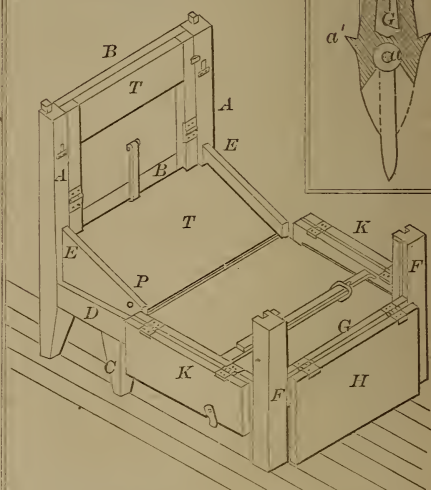
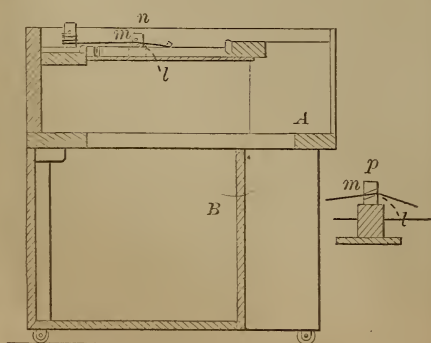
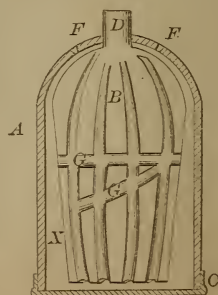


47191—E. M. Dickinson—Boots and Shoes.

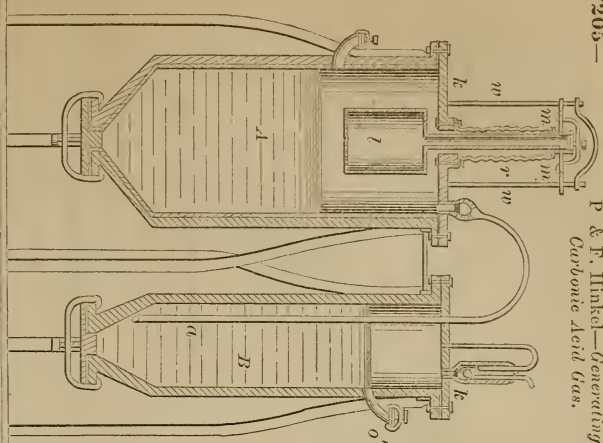
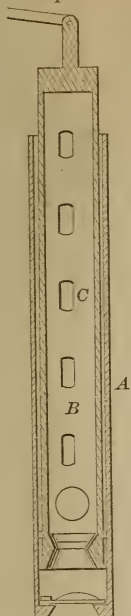


47192—H. Dodge—*Press.*47193—W. F. Dodge—*Pump.*

47194—

47195—M. D. Drake—*Spinning Frame.*47197—J. Eby—*Wardrobe Bedstead.*47196—S. B. Driggs—*Piano Forte.*47199—Francis & Woods—*Tobacco Pipe.*

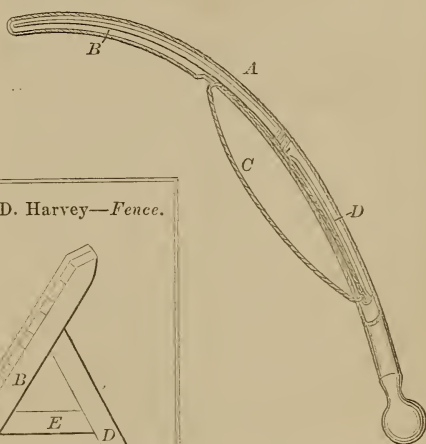
47200—K. Goddard—
Pump.



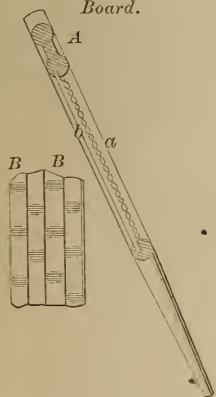
47205—

P & F. Hinkel—Generating
Carbonic Acid Gas.

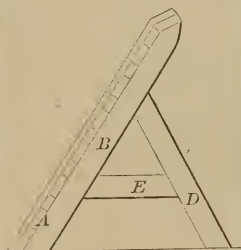
47207—T. W. Houchin—Lighting Gas.



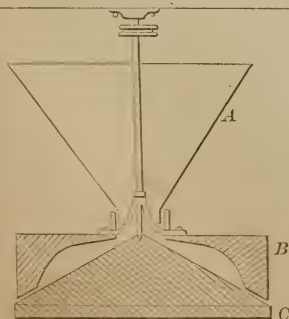
47206—N. Holmes—Wash
Board.



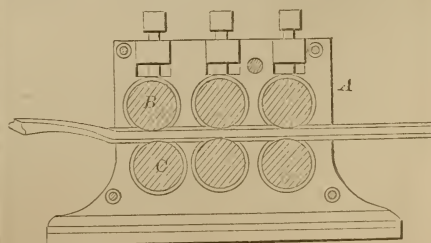
47203—D. Harvey—Fence.



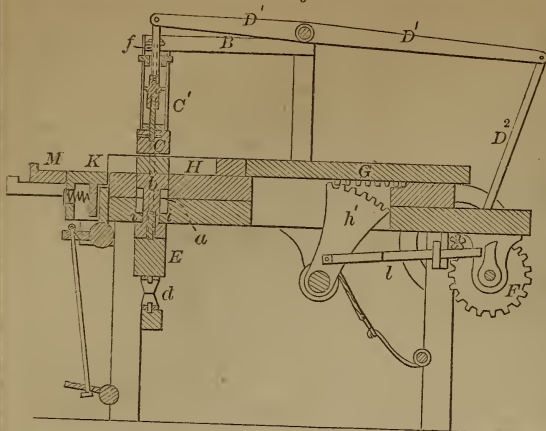
47201—K. Goddard—For Rolling
Tea Leaves.



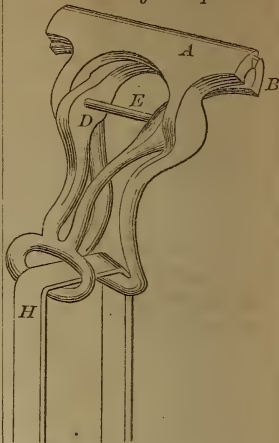
47208—J. Johnston—Straightening Iron Rails.



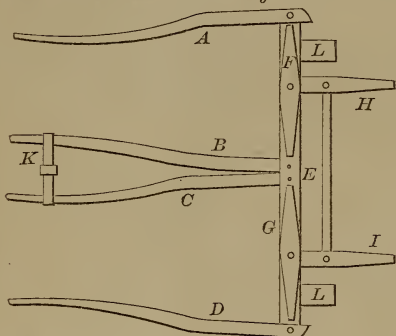
47209—J. K. Lemon—Pressing Brick.



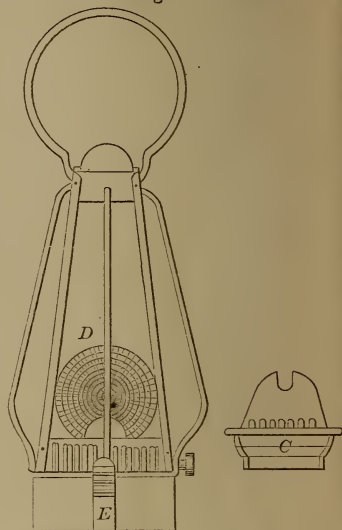
47210—J. O. Lewis—Card Clothing Clamp.



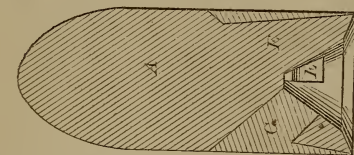
47211—L. W. Mason—Carriage.



47212—J. G. Leffingwell—Lantern.

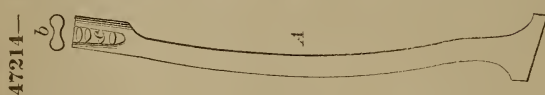


47213—

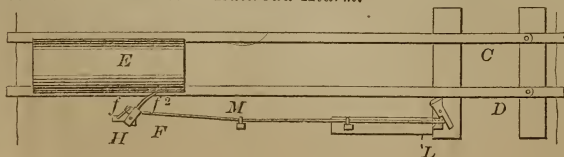


A. J. S. Molinard—Projectile for Ordnance.

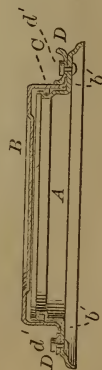
W. Morehouse—Axe Helve.



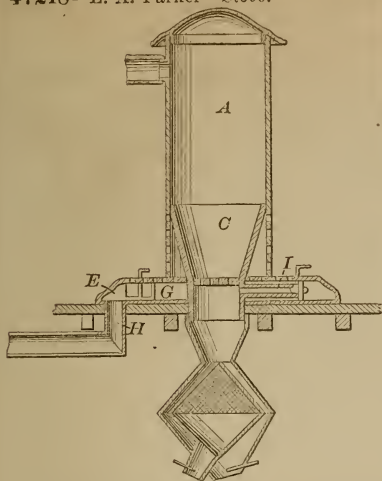
47215—C. P. Morton—Railroad Alarm.



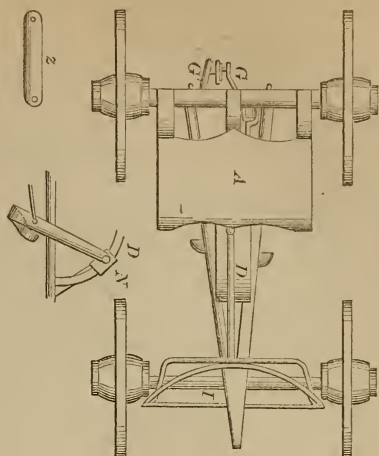
47216—Neuberger & Illig—Fruit Can.



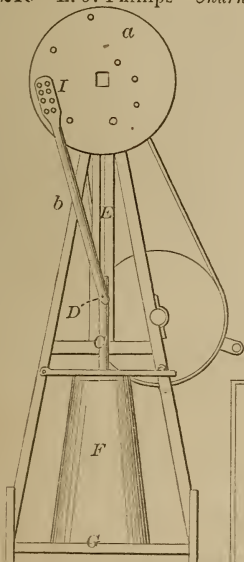
47218—E. A. Parker—Stove.



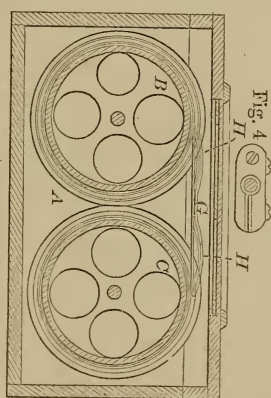
47220—W. Quinn—Velocipede.



47219—E. J. Phillips—Churn.

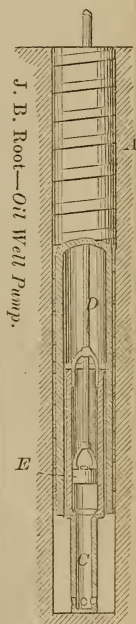


47222—C. Robinson—Photograph Case.

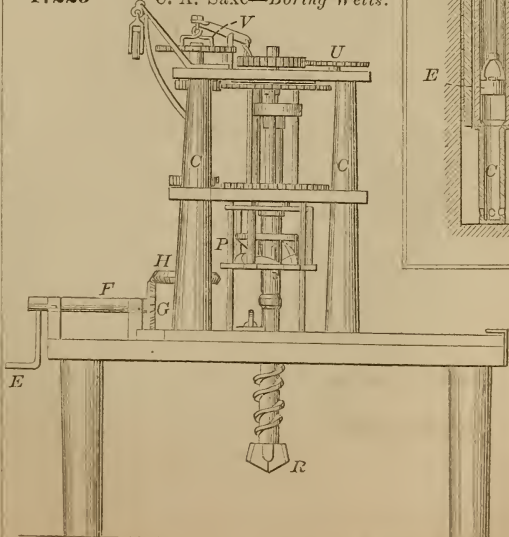


47221—

J. B. Root—Oil Well Pump.



47225—C. A. Saxe—Boring Wells.

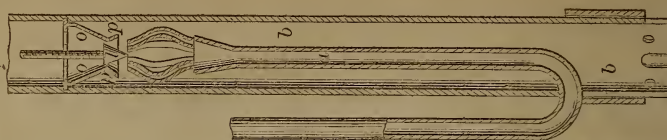


47223—H. W. Sargent, Jr.—Clothes Pin.

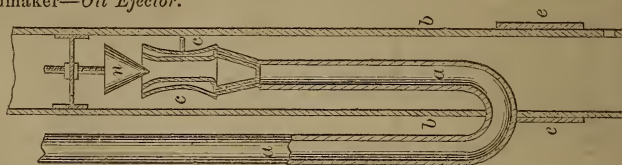
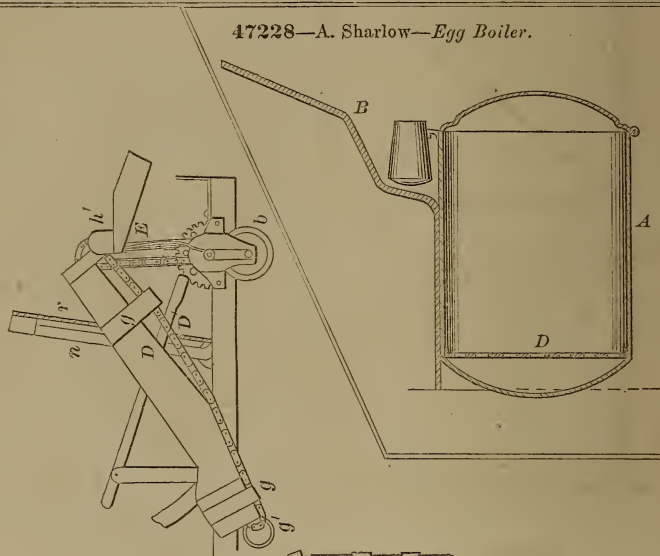
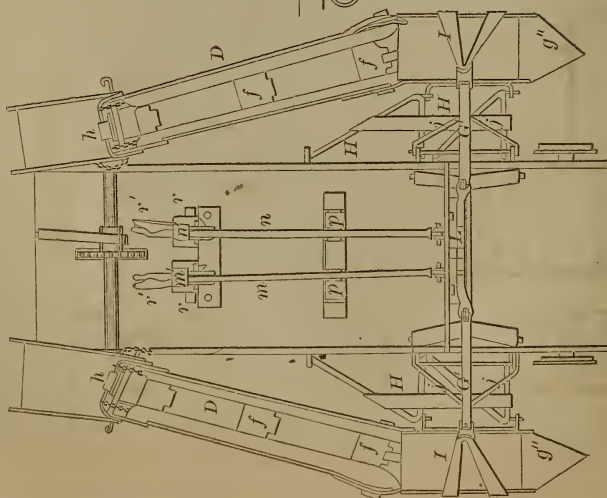


S. F. Schoonmaker—*Oil Ejector.*

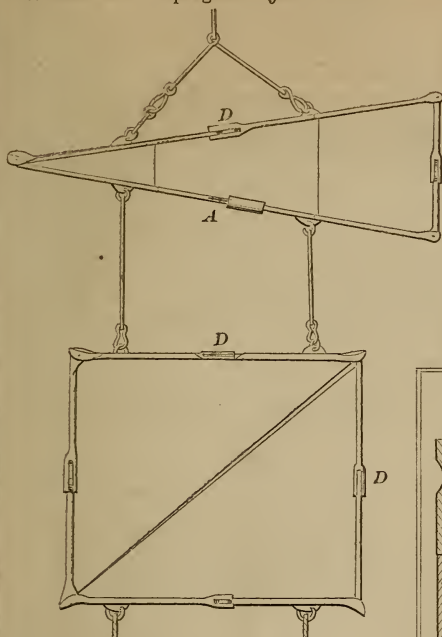
47227—

S. F. Schoonmaker—*Oil Ejector.*

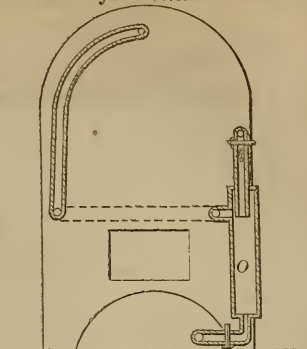
47226—

47228—A. Sharlow—*Egg Boiler.*47229—J. H. Snyder—*Ditching Machine.*

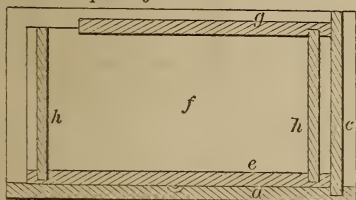
47230—W. H. Sprague—Signal Frame.



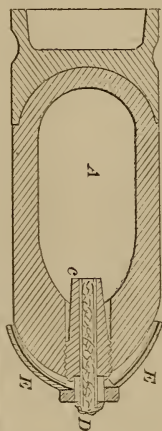
47232—E. Thayer—Sediment Extractor for Boiler.



47234—T. F. Wardwell—Box for transporting Plants.

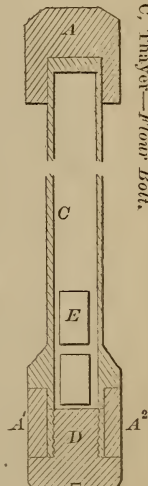


47231—T. Taylor—Buzze for Shell.

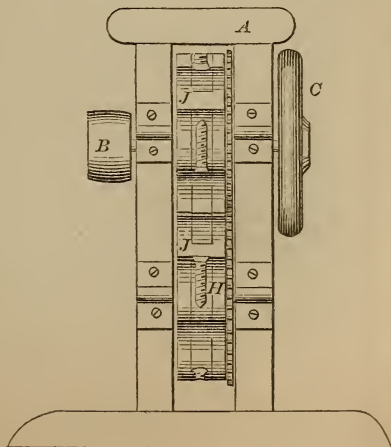


47233—

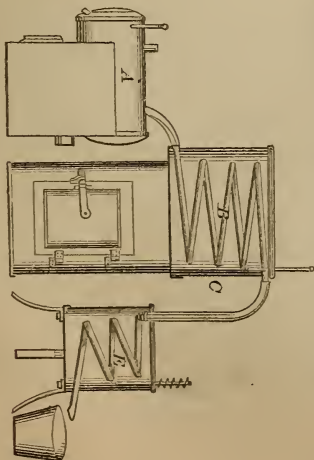
F. C. Thayer—Flour Bolt.

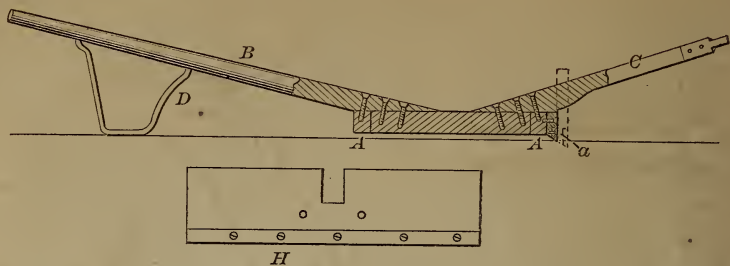
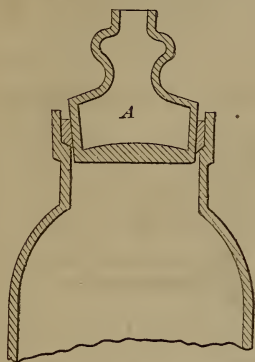
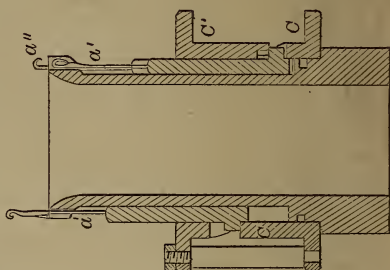
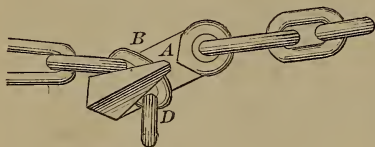
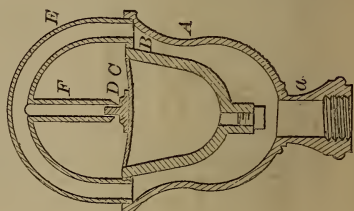
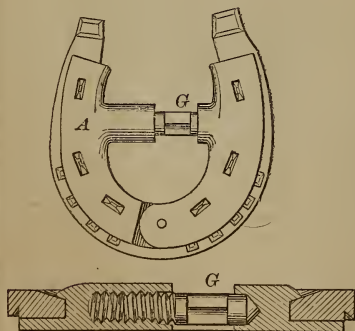
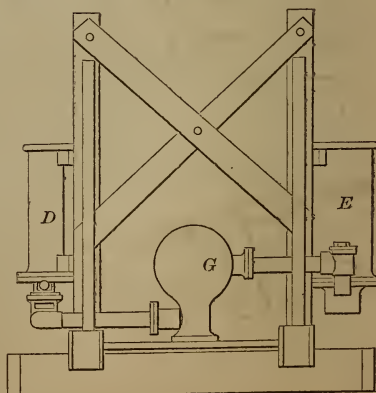


47236—T. Welham—Screw Machine.

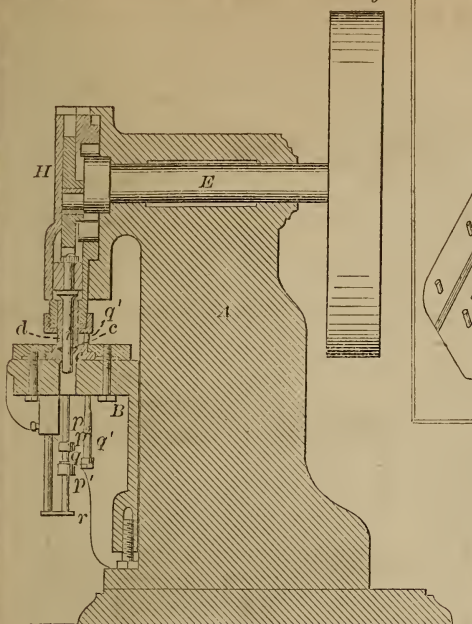


47235—C. M. Warren—Distilling Petroleum.

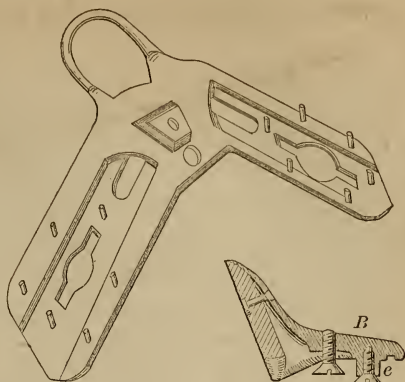


47237—W. Wharton, Jr.—*For Levelling Ice.*47238—J. M. Whitall—*Stopper for Fruit Jar.*47239—J. Whittle—*Knitting Machine.*47241—M. Colgan—*Chain Work.*47240—J. P. Wood—*Automatic Steam Valve.*47242—O. P. Macgill—*Horse Shoe.*47243—J. Molyneux—*Air Pump.*

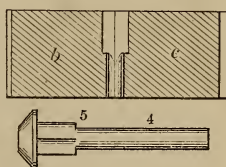
47246—T. J. Powers—*Metallic Cartridge.*



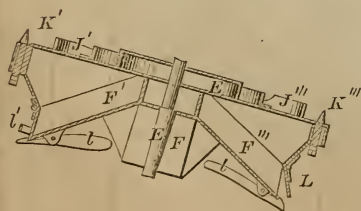
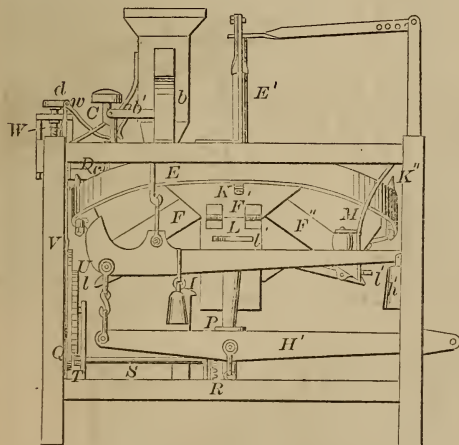
47241—O. B. North—*Harness Saddle.*



47245—A. Pond—*Carriage Bolt.*

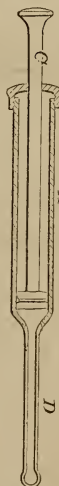


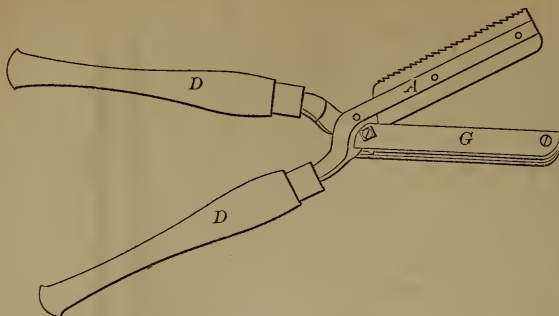
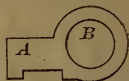
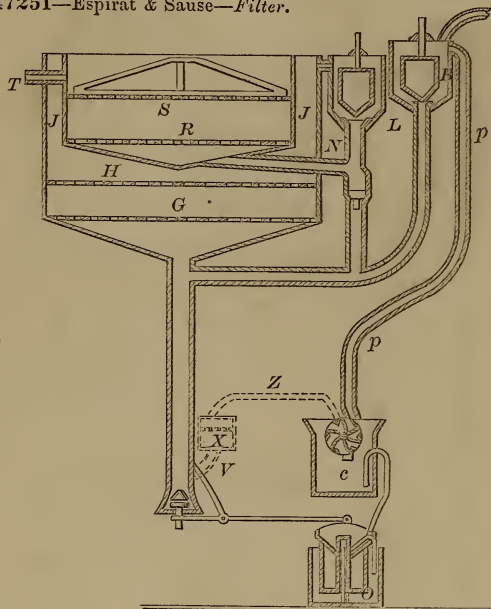
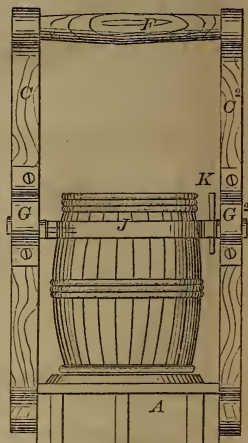
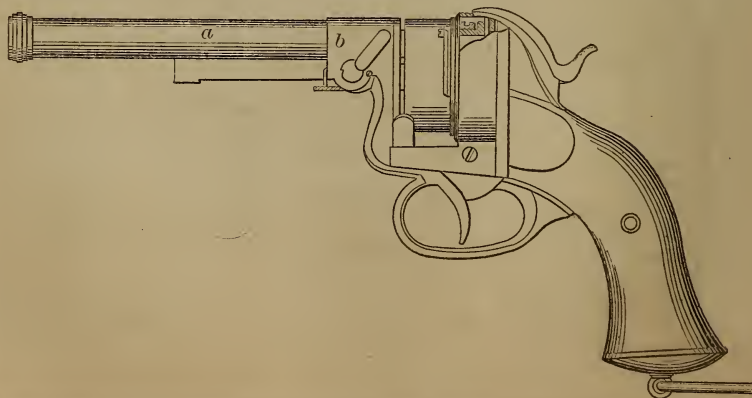
47247—M. Robbins—*Grain Weigher.*



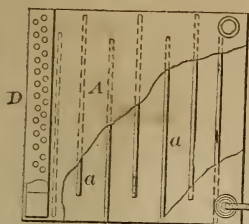
47249—
A. A. Wilson—*Well Boring Device.*

47248—L. Wheelock—*Syringe.*

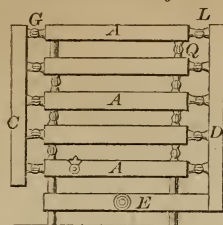


47250—G. Carter—*Shears.*47251—C. W. Cahoon—*Wick Scraper.*47255—E. S. Drake—*Saw.*47251—Espirat & Sause—*Filter.*47253—T. Burns—*Barrel Packer.*47252—A. Guerriero—*Fire Arm.*

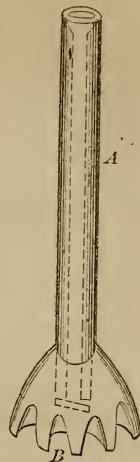
47256—J. H. Erwin—For Carburetting Air.



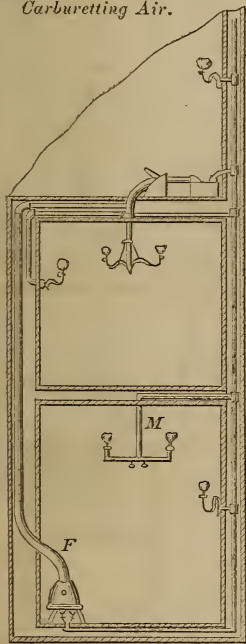
47258—Erwin & Simmons—For Carburetting Air.



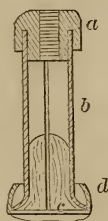
47259—D. Johnson—Churn Dasher.



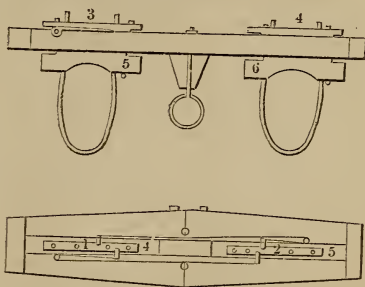
47257—J. H. Erwin—For Carburetting Air.



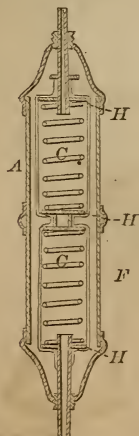
47260—E. L. Pratt—For Cleaning Gun Barrels.



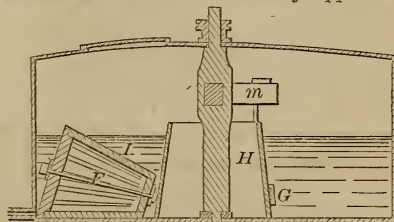
47263—E. S. Woodford—Ox Yoke.



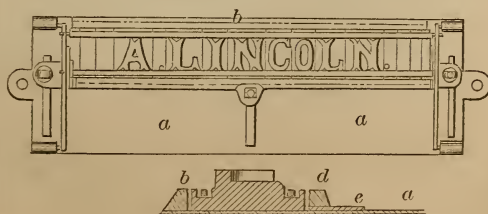
47261—T. Simmons—Filter.



47264—W. Adamson—Kneading Apparatus.

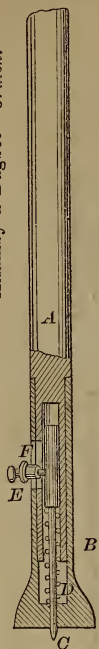


47262—H. Tubesing—Flexible Type.

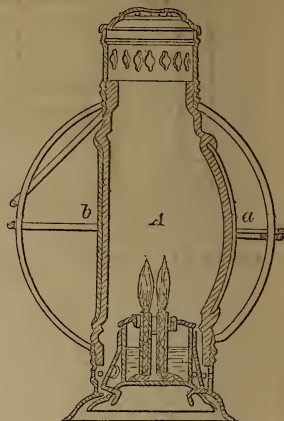
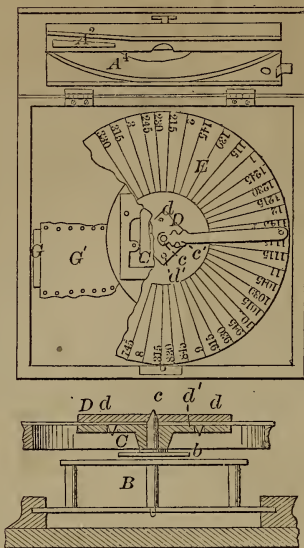


47265—

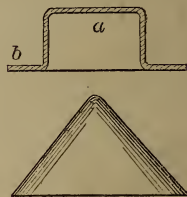
Allamby & Bugbee—Crutch.



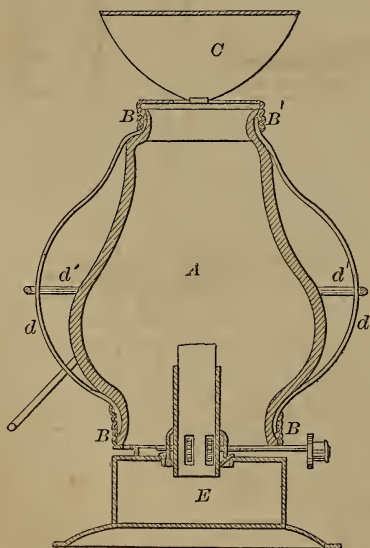
47266—T. Ascherfield—Time Reporter.



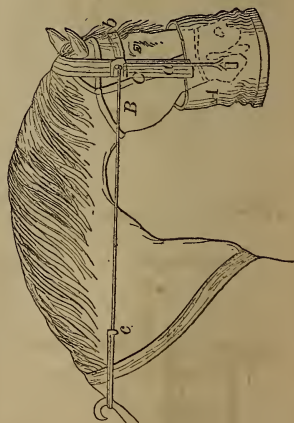
47269—A. Bailey—Printed Felt Hat.



47267—J. S. & T. B. Atterbury—Lantern.

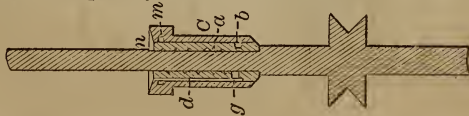


47270—A. T. Ballentine—Feed Bag

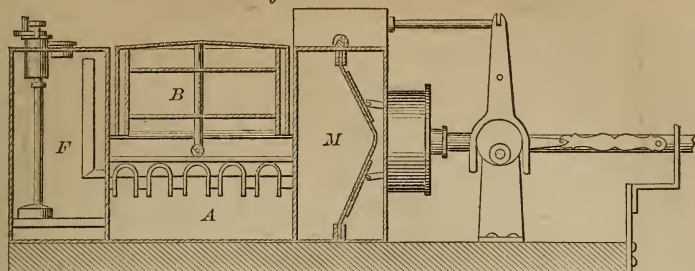


S. S. Bartlett—Spinning Frame.

47271—

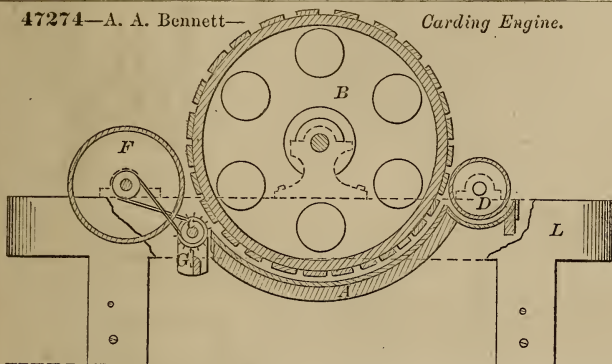


47272—J. A. Bassett—Carburetted Air.

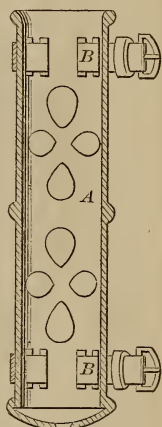


47274—A. A. Bennett—

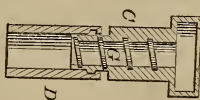
Carding Engine.



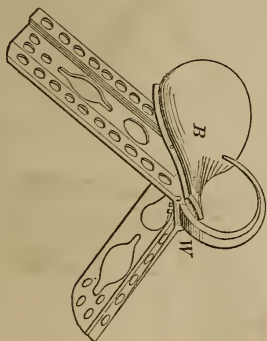
47277—
Brewer & Stow—
Whip Socket.



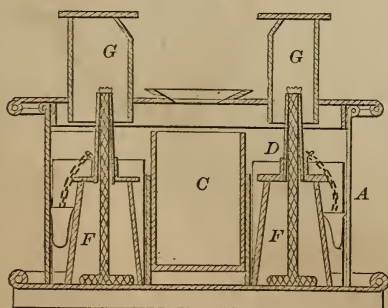
47278—G. W. Briggs—
Spindle Bearing.



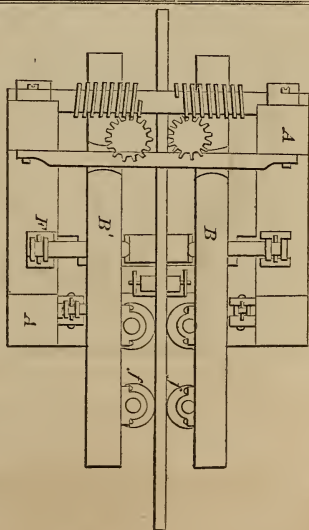
47276—P. Böttger—Harness Saddle.

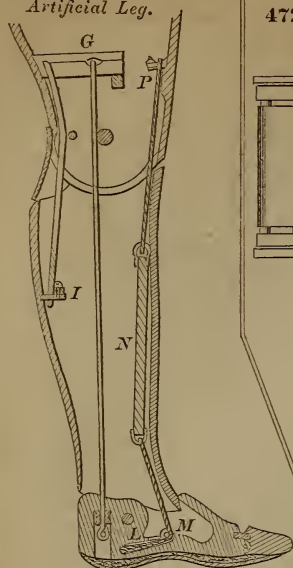
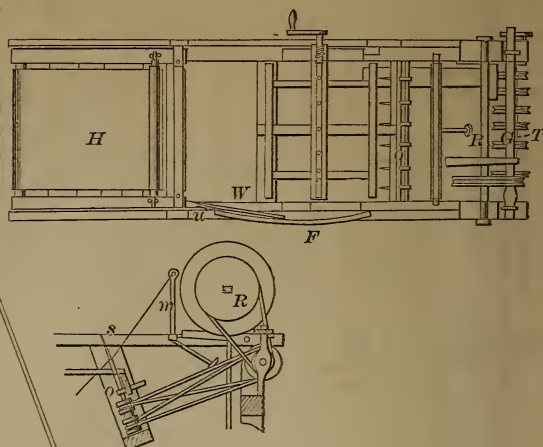


47280—G. B. Clarke—Spittoon and Foot
Warmer.

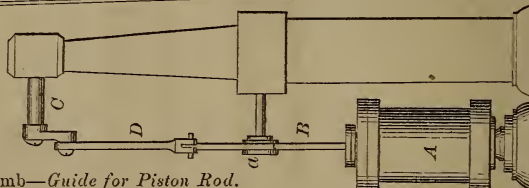
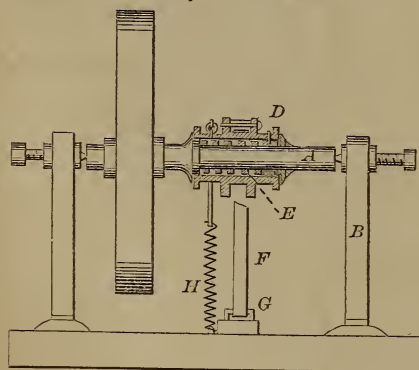
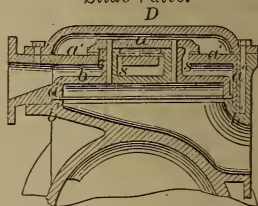
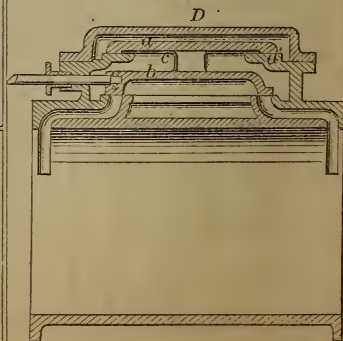
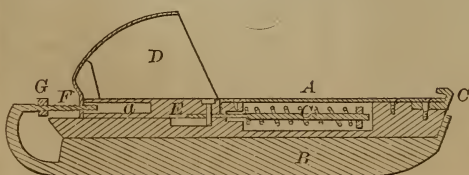


47279—V. H. Buschman—Sawing Machine.

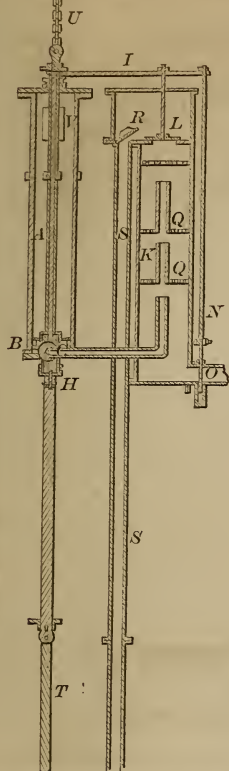


47281—R. Clement—
Artificial Leg.47285—T. Evans—*Spinning Machine.*

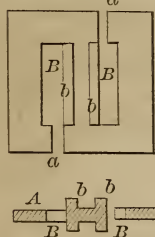
47283—

E. Dunscomb—*Guide for Piston Rod.*47282—A. L. Dewey—*Treadle Motion.*47284—C. E. Emery—*Balanced Slide Valve.*47287—J. P. Farmer, Jr.—*Skate.*

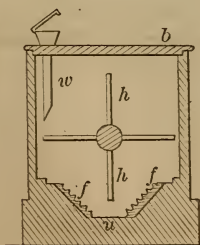
47289—T. M. Fell—
Mine Pump.



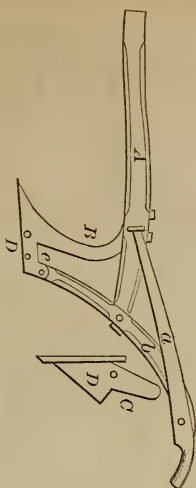
47288—E. V. Fassman—
Hoop Lock for Bales.



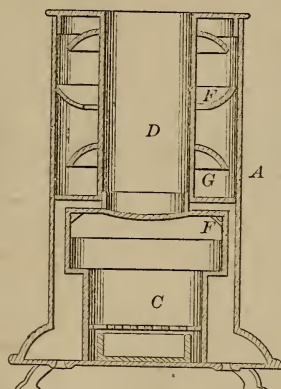
47292—Gallup & Hewitt—
Churn.



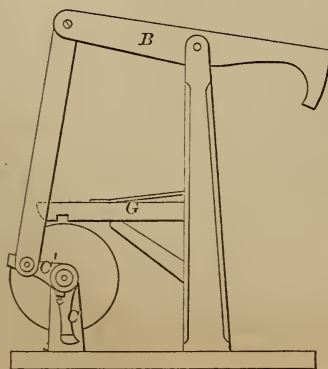
47291—J. George—
Plow.



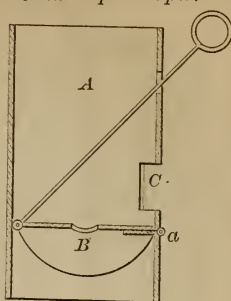
47291—C. Fownes—
Stove.



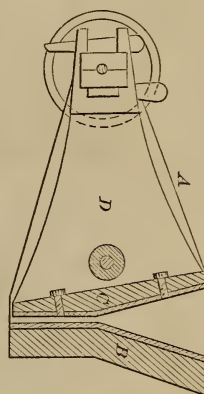
47290—W. S. Fickett—
Rock Drill
Apparatus.



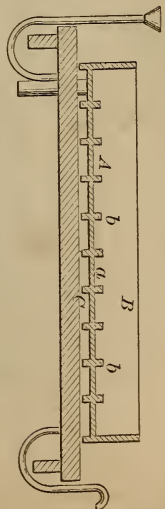
47293—E. M. Gardner—
Smoke Pipe Damper.



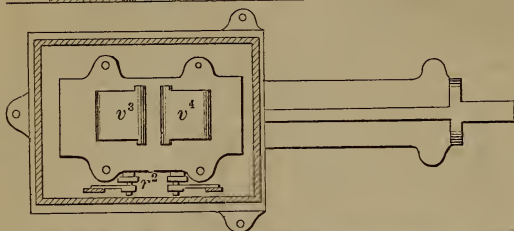
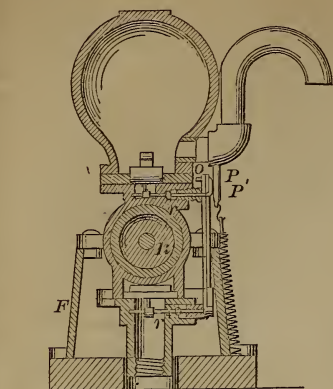
47297—A. W. Hall—
For Crushing Ore.



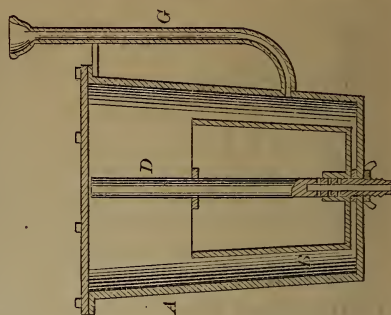
47298—A. Hammer—
Cooler for Breweries.



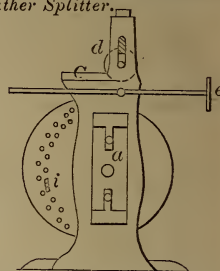
47299—Hampson & Ladue—Pump.



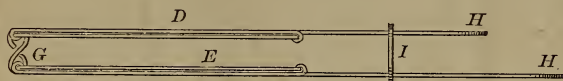
47304—P. Hogg—Steam Trap.



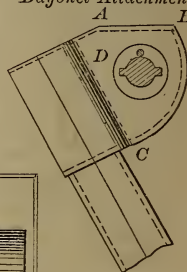
47300—Harvey & Herkstroeter—Leather Splitter.



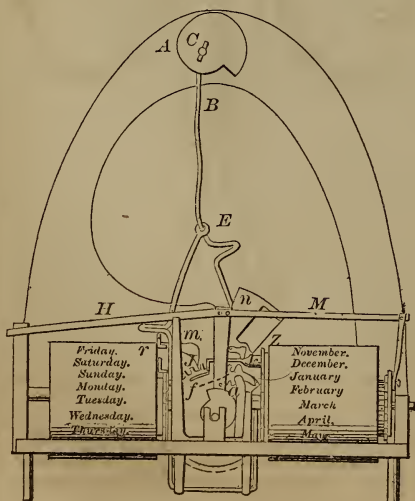
47302—Hildreth & Johnson—Broiler and Toaster.



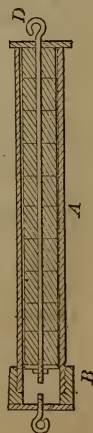
47303—W. Hoffman—Bayonet Attachment.



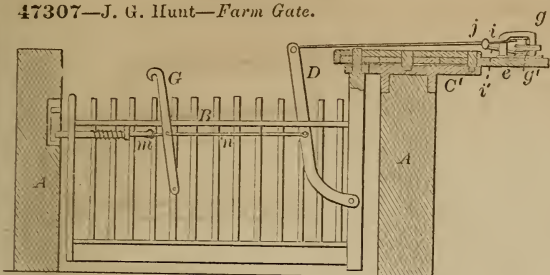
47306—H. B. Horton—Calendar Clock.



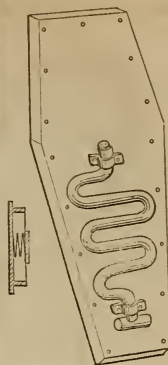
47305—S. M. Hoover—Coupling Spring.



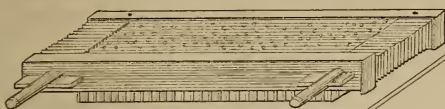
47307—J. G. Hunt—Farm Gate.



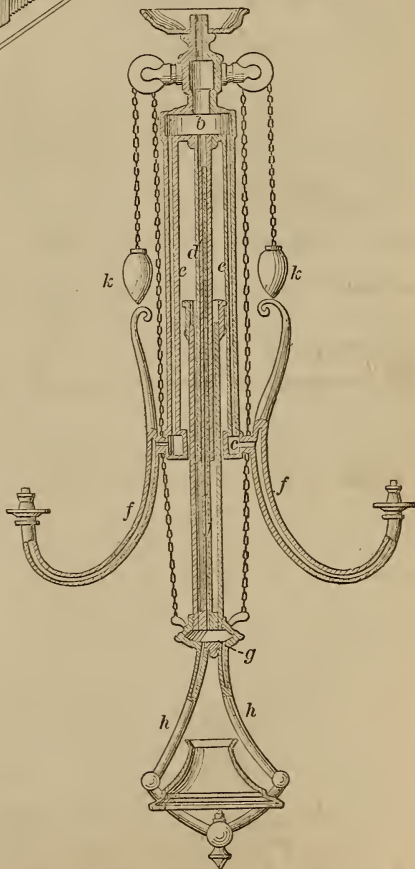
47313—A. E. Lyman—Deodorizing Coffin.



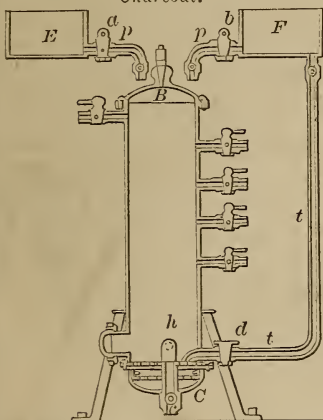
47311—S. Krakowizer—Friction Match.



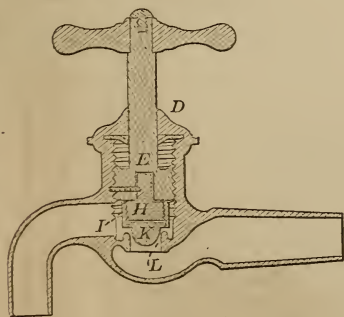
47312—P. Loth—Chandelier.



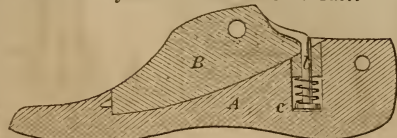
47308—G. A. Jasper—Revivifying Charcoal.



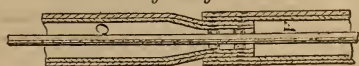
47309—N. Jenkins—Cock.



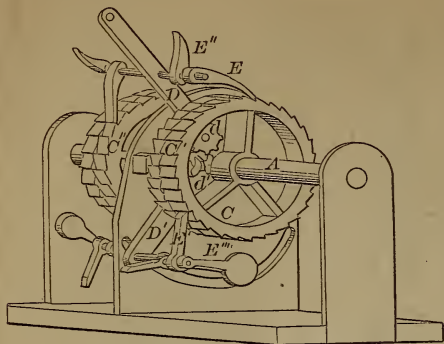
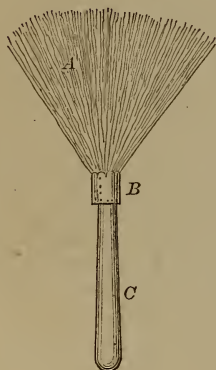
47314—Lynahan & Koch—Shoe Last.



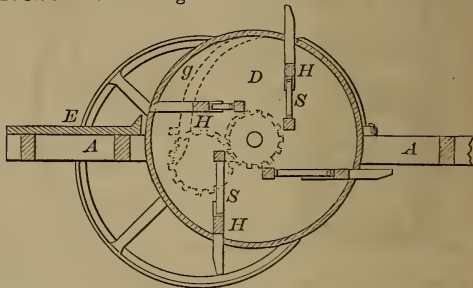
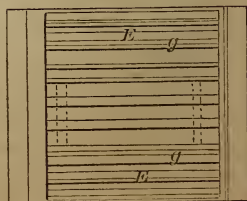
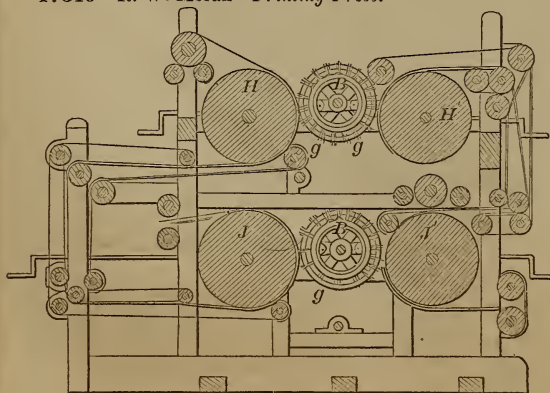
I. Johnson—Lightning Conductor.



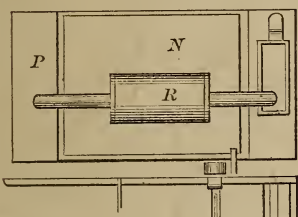
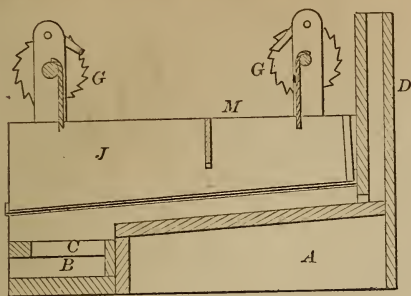
47310—

47315—W. C. McGill—*Mechanical Movement.*47316—J. P. McLean—*Gun Cotton.*47318—C. M. Moody—*Dusting Brush.*

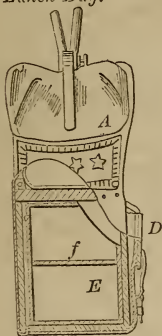
47317—

D. M. Moford—*Cartridge.*47320—D. B. Munger—*Bean Harvester.*47319—R. W. Moran—*Printing Press.*

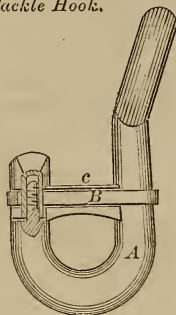
47321—I. Myers—For Manufacturing Sorghum.



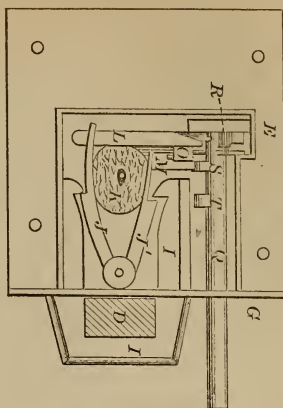
47324—J. H. Noyes—Lunch Bag.



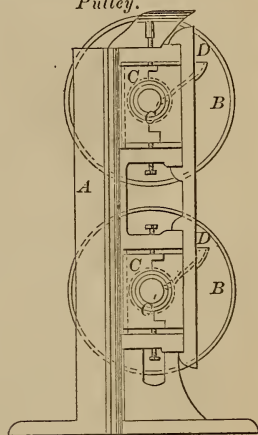
47322—J. W. Norcross—Tackle Hook.



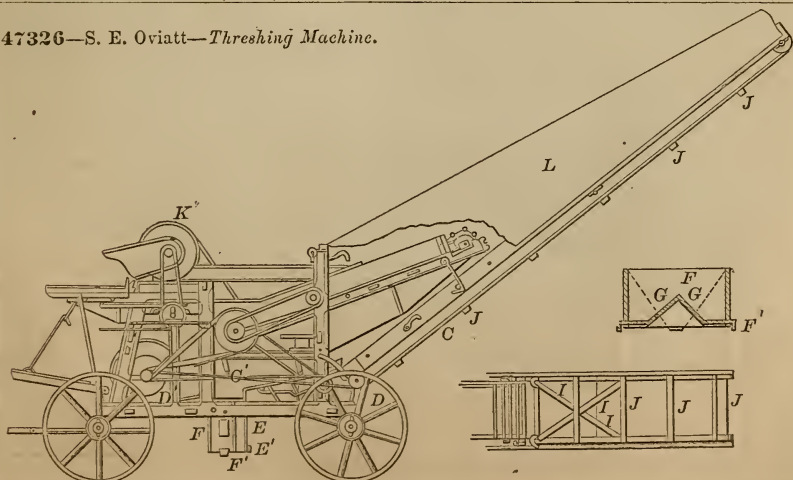
47325—H. Oaks—Lock.

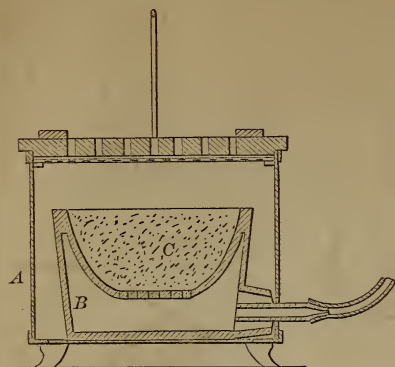
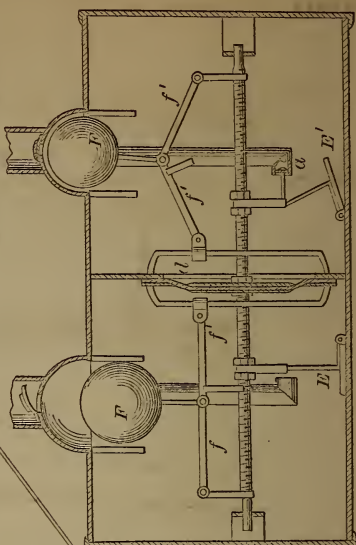
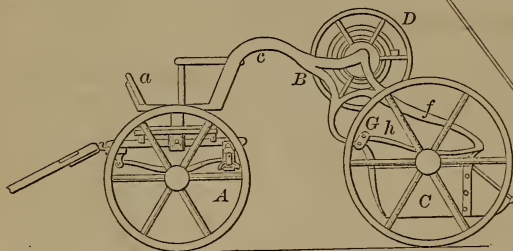
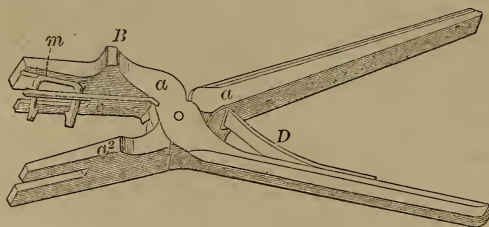
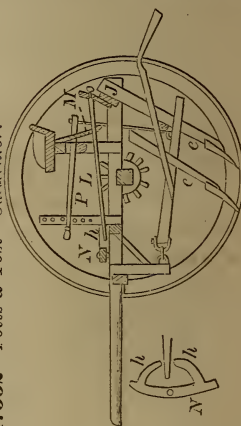
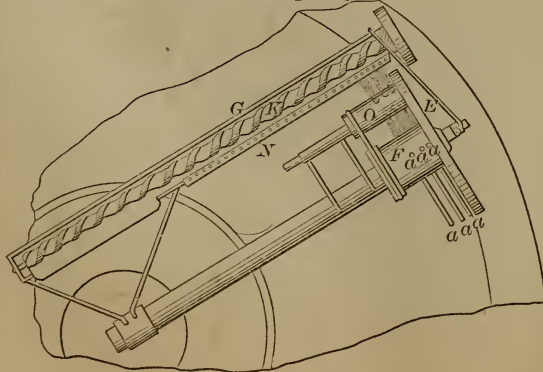
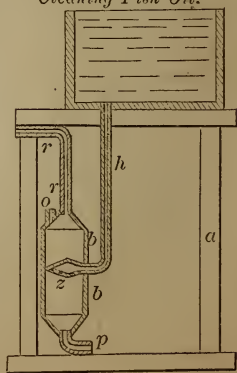


47323—A. B. Nimbs—Tension Pulley.

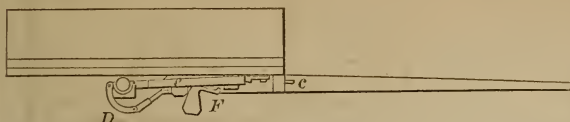


47326—S. E. Oviatt—Threshing Machine.

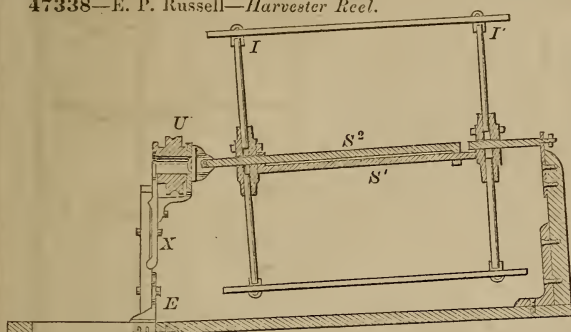


47327—C. L. Palmer—*Foot Warmer.*47328—J. S. Patric—*Compressing Air.*47330—Perrine & Stewart—*Hose Carriage.*47329—T. G. Pelton—*Hog Tamer.*47332—Potts & Yost—*Cultivator.*47331—N. F. Potter—*For Preparing Peat.*47333—T. C. Robinson—*Cleaning Fish Oil.*

47334—E. Robbins—*Carriage.*



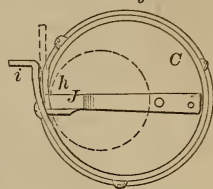
47338—E. P. Russell—*Harvester Reel.*



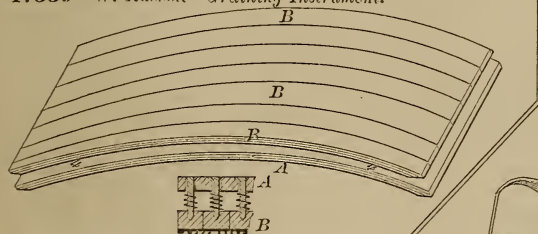
47336—H. Roettger—*Object Glass for Camera.*



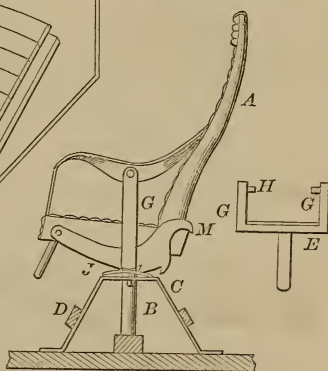
47340—J. A. Safford—*Leather String Cutter.*



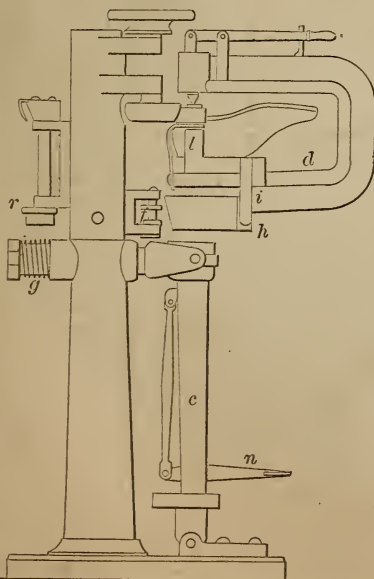
47339—W. Russell—*Graining Instrument.*



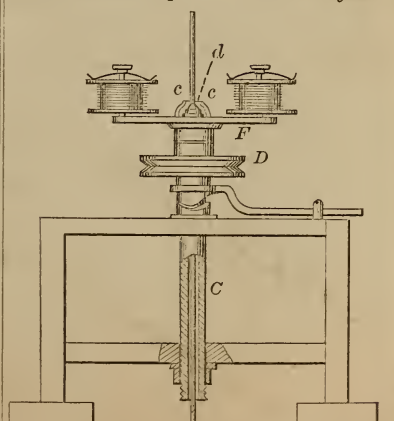
47342—G. W. Sayre—*Car Seat.*

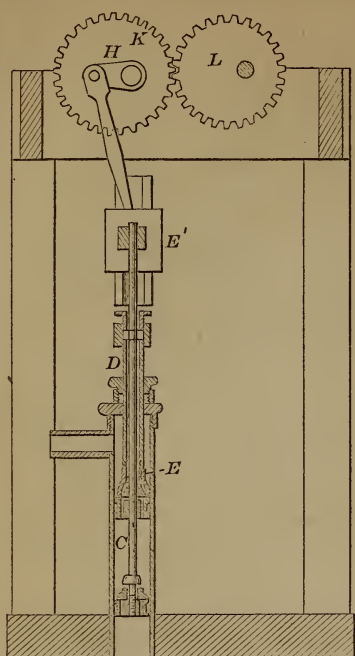
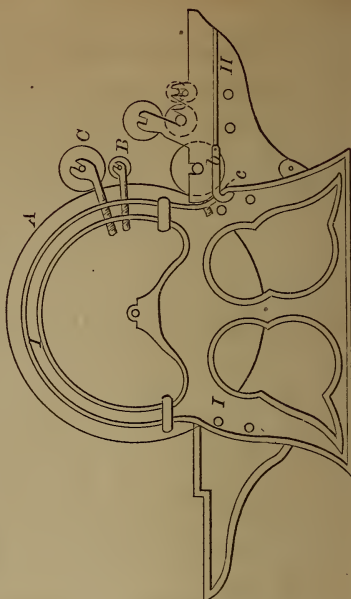
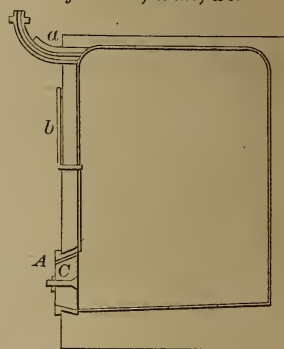
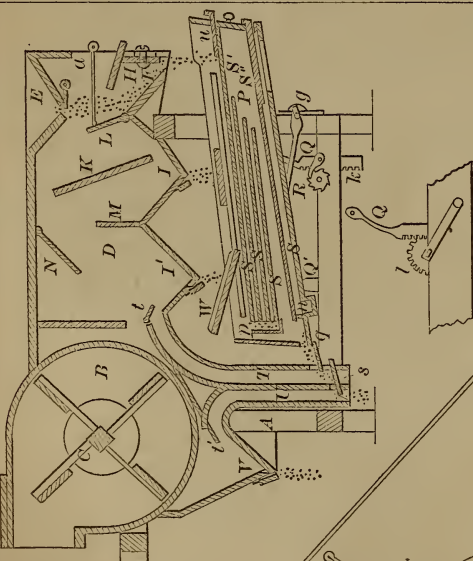
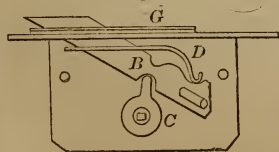
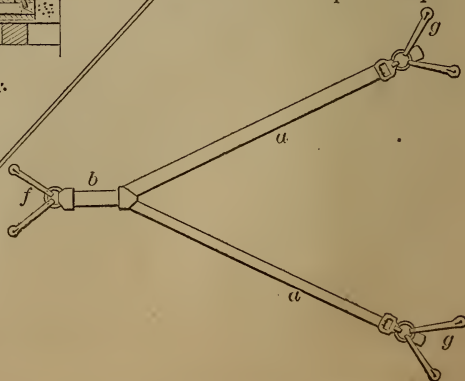


47341—J. F. Sargent—*For Heel Trimming.*

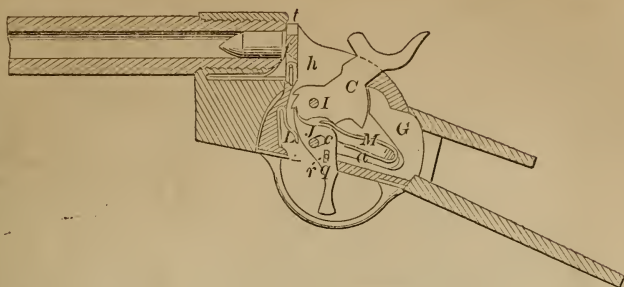


47343—T. S. Sperry—*For Covering Wire.*

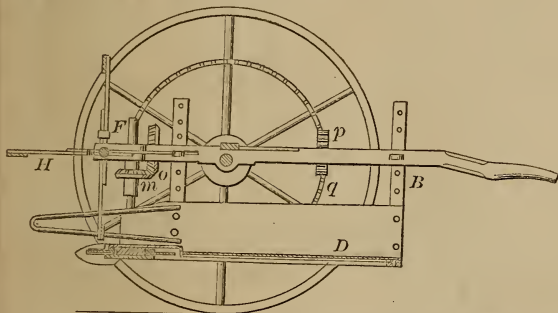


47344—N. Sutton—*Pump.*47345—D. Tainter—*Carding Machine.*47347—M. Tschirgi—*Reservoir for Beer, Wine, &c.*47346—B. T. Trimmer—*Grain Separator.*47349—S. Walker—*Piano Forte Lock.*47348—A. W. Upton—*Suspenders.*

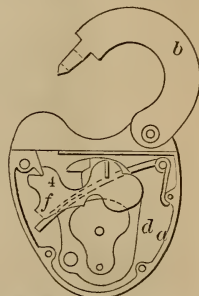
47350—A. M. White—*Fire Arm.*



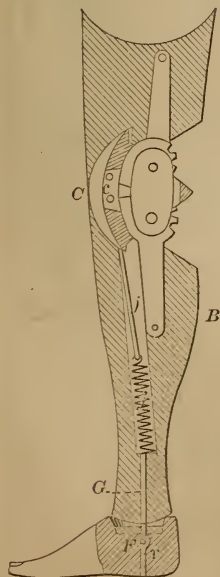
47351—B. Wieland—*Harvester.*



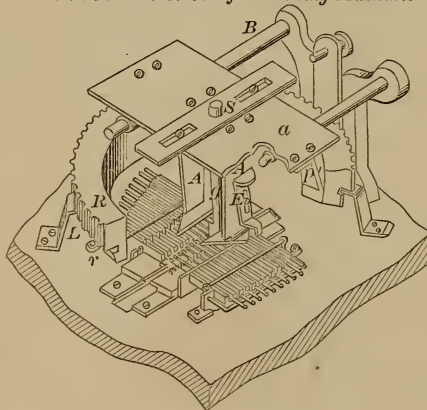
47352—D. T. Brown—
Padlock.



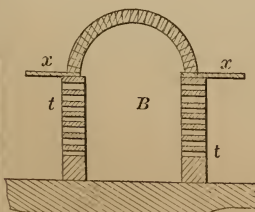
47353—T. Burr—*Artificial*
Leg.



47354—A. C. Carey—*Knitting Machine.*



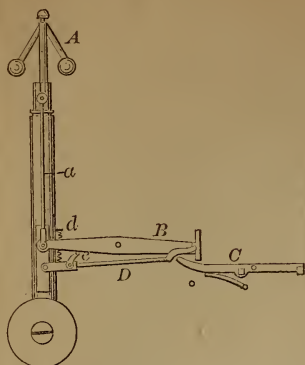
47355—W. Hamilton—
Smoke House.



47356—C. B. Hatfield—*Shoe
Fastening.*

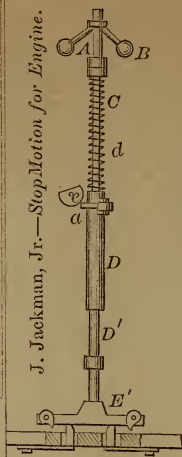


47357—J. Jackman, Jr.—*Stop Motion for Engine.*



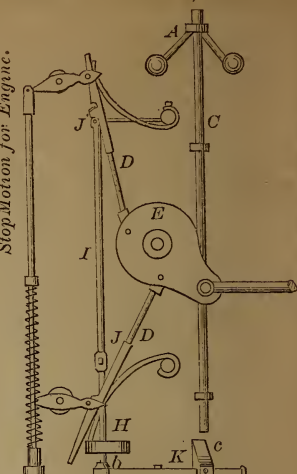
47358—

J. Jackman, Jr.—*Stop Motion for Engine.*

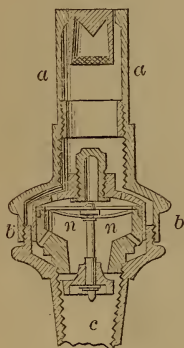


47359—J. Jackman, Jr.—

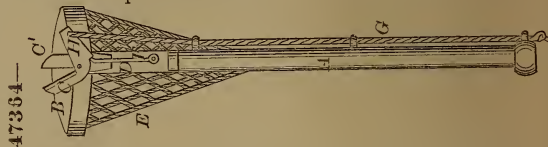
Stop Motion for Engine.



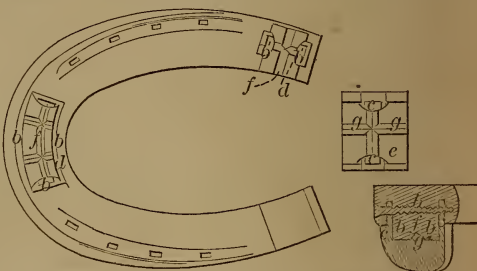
47362—W. Mallerd—*Gas Burner.*



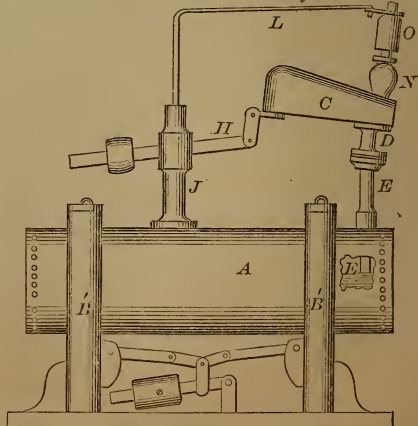
B. C. Phelps—*Fruit Picker.*



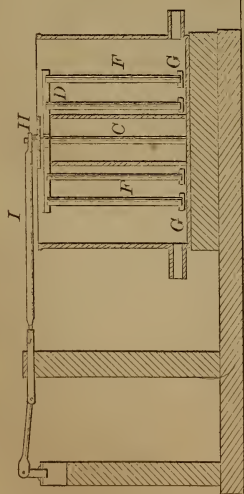
47360—C. H. Johnson—*Horse Shoe.*



47365—G. A. Riedel—*Indicator for Steam Boiler.*



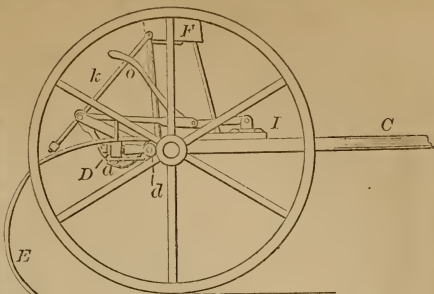
47361—A. R. Judson—*For preparing Lard.*



47366—J. E. Seavey—Trace Connection.

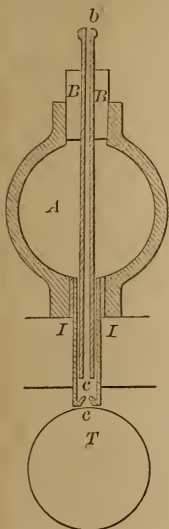


47371—J. M. Jay—Horse Rake.

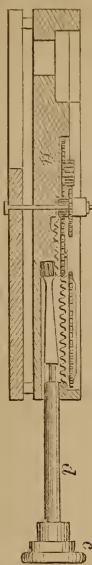


47367—

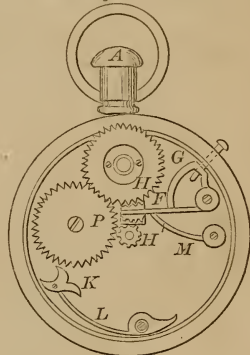
F. Bresson—Lubricator.



47370—C. E. Laedrich—Winding Watch.



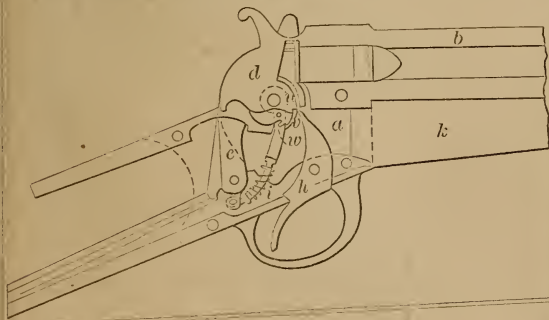
47369—Gondelfinger & Biehet—Winding Watch.



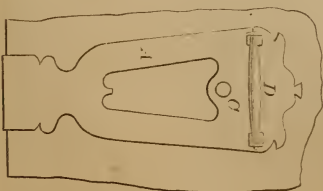
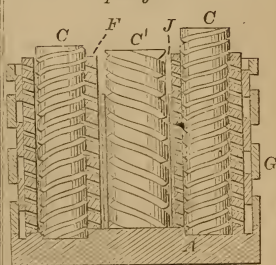
47374—E. P. Allyn—Extension Table.



47372—W. H. Elliott—Fire Arm.

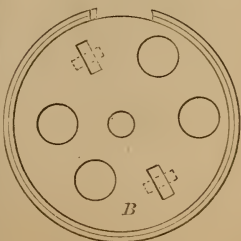


47373—G. A. Riedel—Car Spring.



47375—L. Almy—Coffin Handle.

47368—W. C. Fuller—Weather Strip.

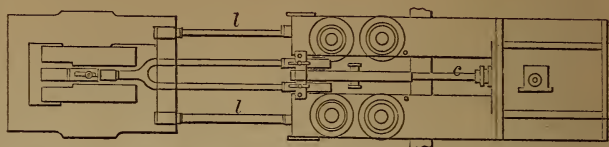


47376—

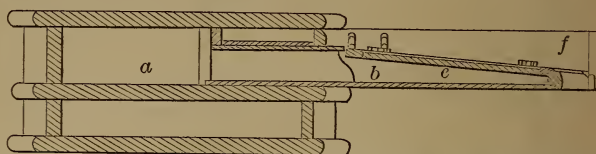
Arkell & Smiths—Paper Bag.



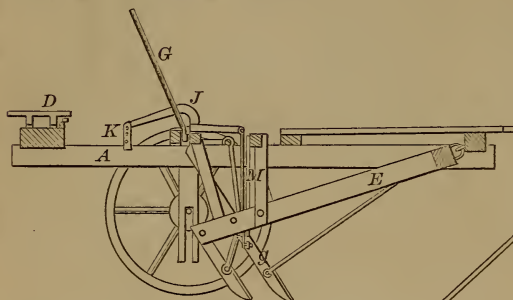
47377—J. Baird—Steam Engine.



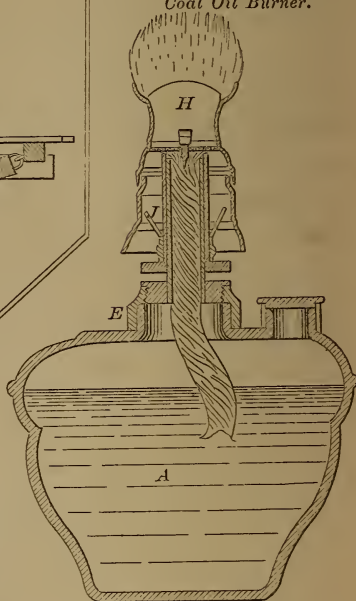
47378—C. Baldwin—Table and Desk.



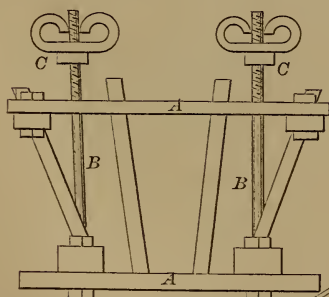
47380—L. B. Barton—Cultivator.



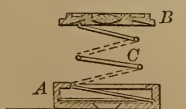
47381—W. W. Batchelder—Coal Oil Burner.



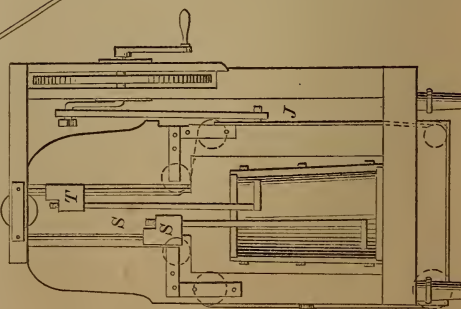
47379—G. Baldwin—Hay Rack.



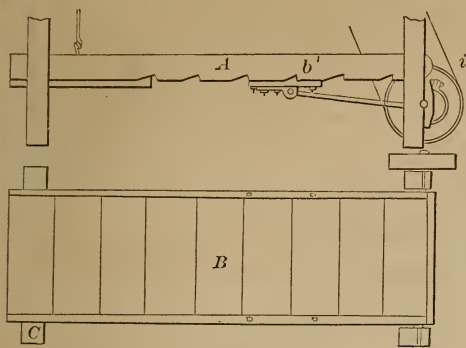
47382—J. J. Bausch—Microscope.



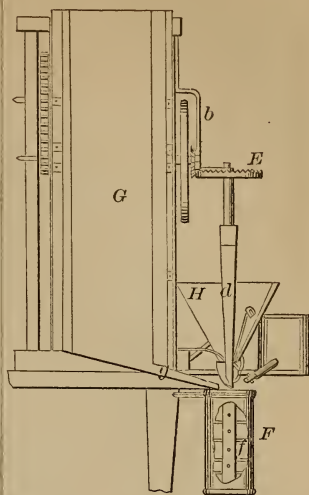
47383—C. F. Baylor—Churn.



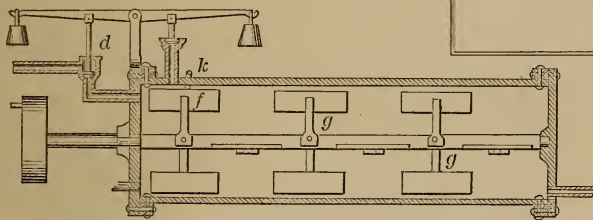
47384—Behr & Ward—Amalgamating Table.



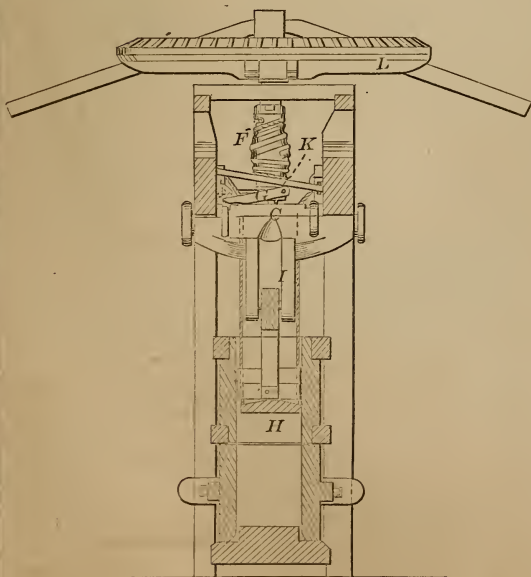
47386—E. F. Bishop—Straw Cutter.



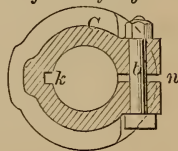
47385—Bennett & Gibbs—Soap.



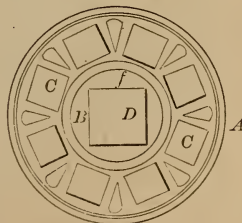
47387—L. Boudreaux—Press.



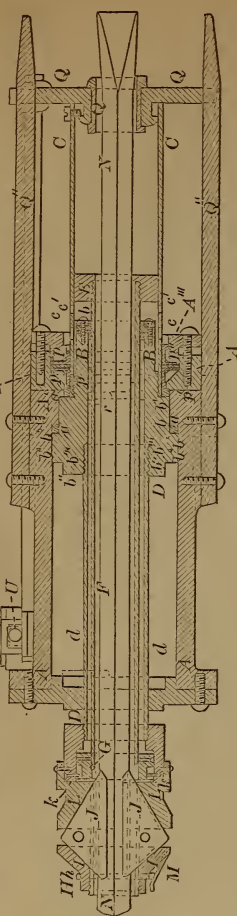
47388—R. Briggs—Coupling for Shafting.



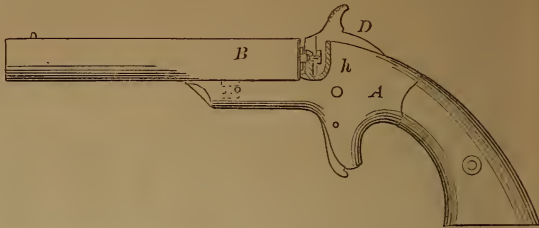
47389—Browne & Baldwin—Galvanic Battery.



47390—J. D. Butler—Engine for Rock Drill.



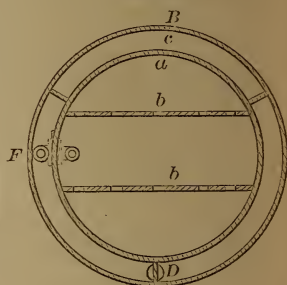
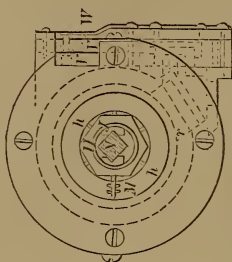
47396—J. W. Cochran—Fire Arm.



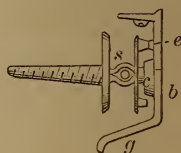
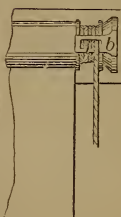
47395—H. M. Claflin—Splicing Timber.



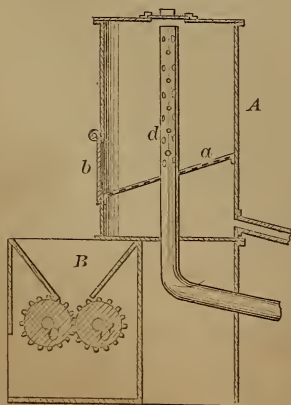
47393—J. Chilcott—Vegetable Extracts.



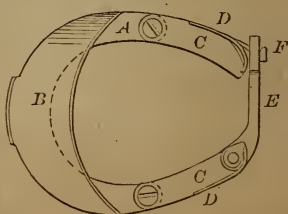
47392—Chase & Loughborough—Curtain Fixture.



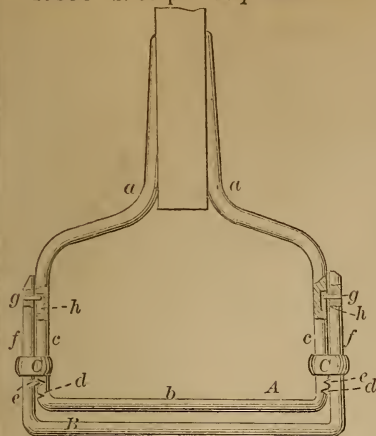
47394—J. Chilcott—Distillation.



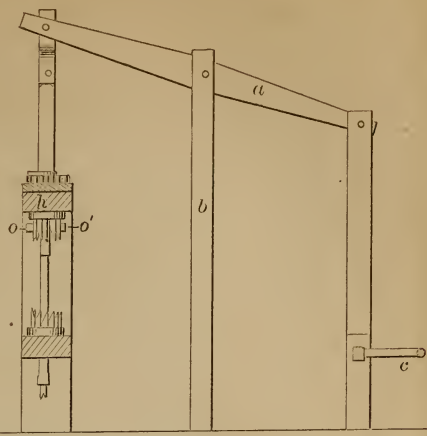
47397—W. Coes—Horse Shoe.



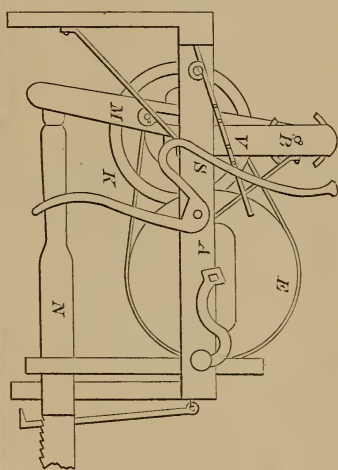
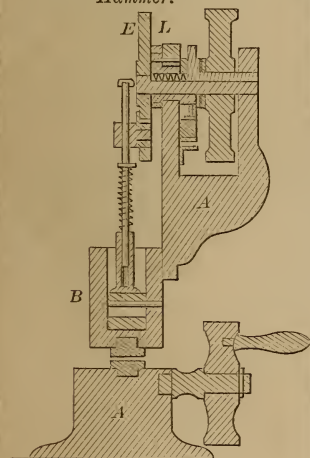
47398—S. Cooper—Mop Head.



47400—J. Donnell—Well Boring.

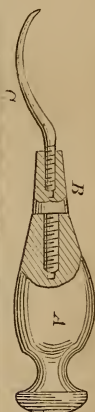


47405—J. Evans—Drop Hammer.



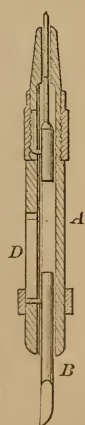
47404—Ennis & Bosworth—Sewing Machine.

47403—R. Egan—Avel.

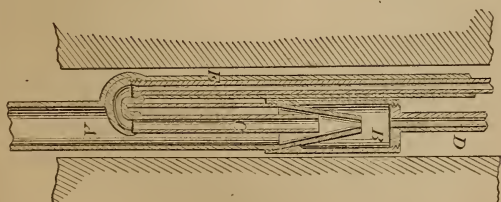


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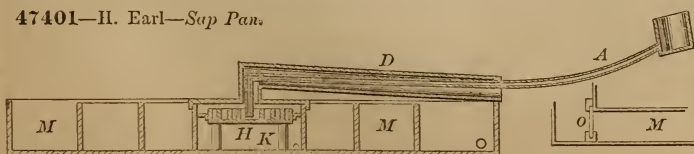
Evans & Denner—Pencil and Eraser.



47399—E. Crooker—Oil Ejector.

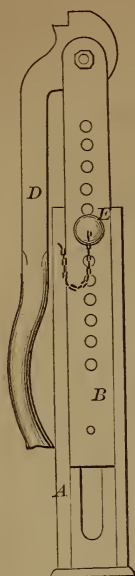


47401—H. Earl—Sap Pan.

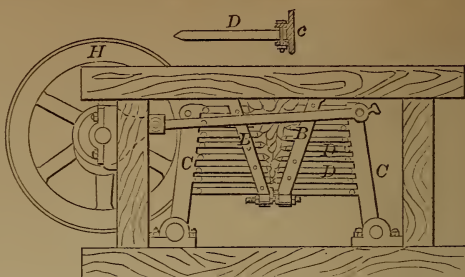


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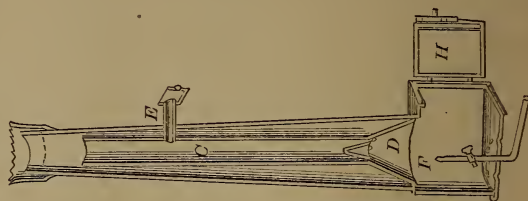
A. W. Field—Carnage Jack.



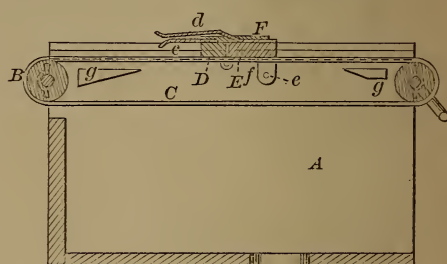
47409—J. Fox—Coal Breaker.



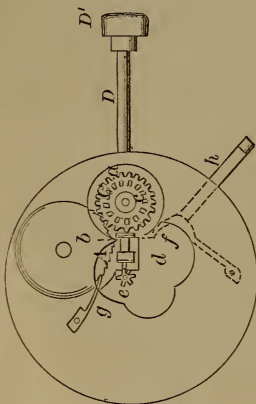
47413—H. A. Gouge—Ventilator.



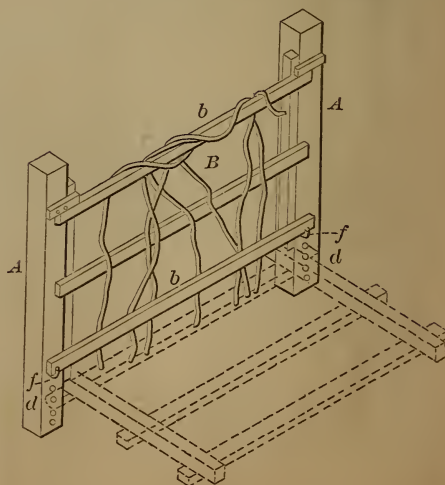
47411—C. O. Furbush—Printing Press.



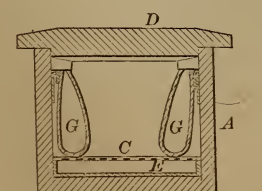
47412—F. A. Giles—Winding Watch.



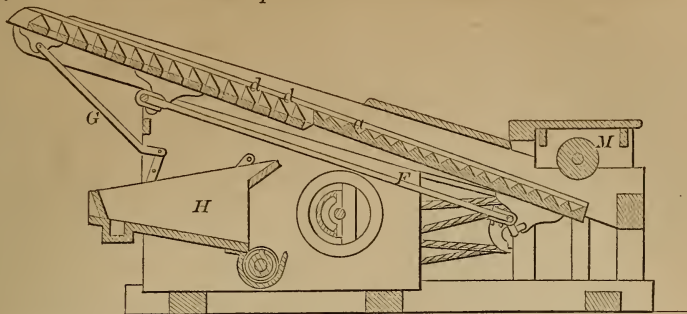
47415—F. B. Green—Grape Vine Support.



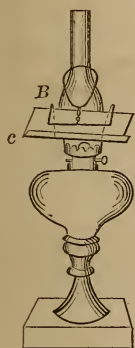
47414—T. Graham—Coffin.



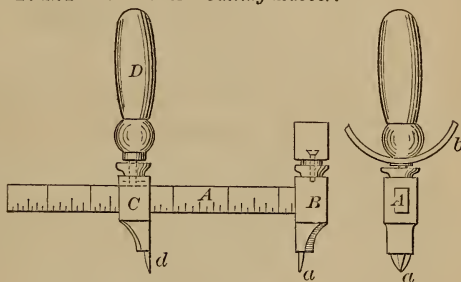
47417—J. H. Hamaker—*Grain Separator.*



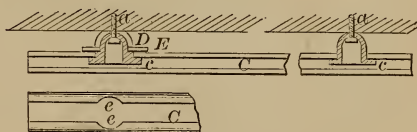
47418—J. Hanley—*Lamp Shade Holder.*



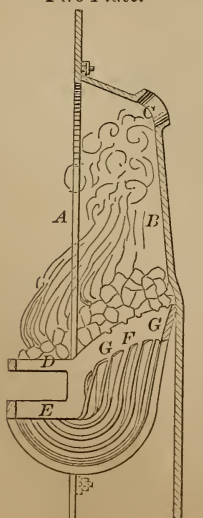
47421—E. Hubner—*Cutting Rubber.*



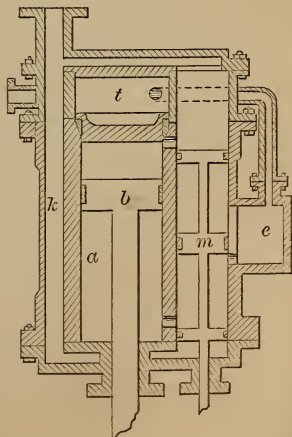
47422—H. Jackson—*Stair Rod Fastening.*



47423—W. H. James—*Fire Place.*

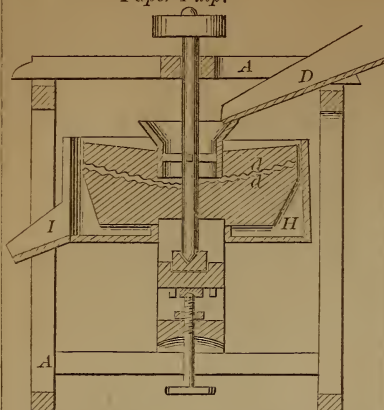
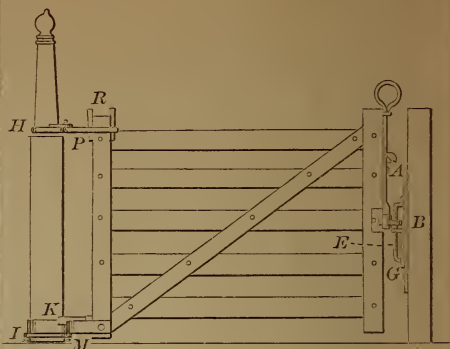
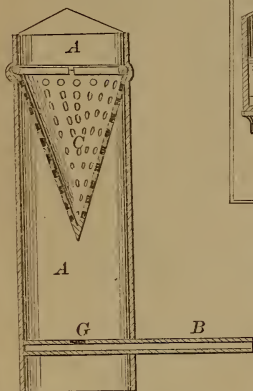
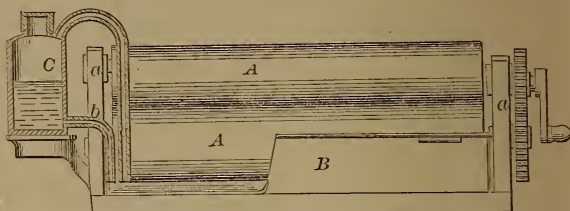
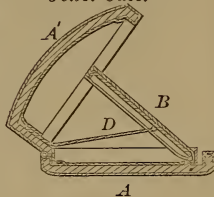
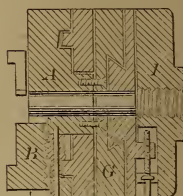
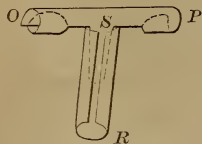
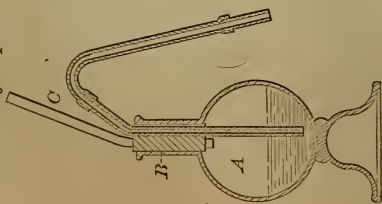
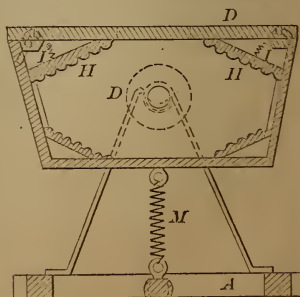


47424—H. Johnson—*Steam Engine.*

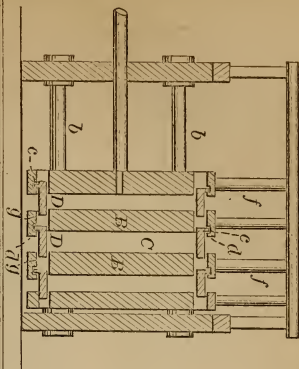


47419—A. S. Hatch—*Marine Propeller.*

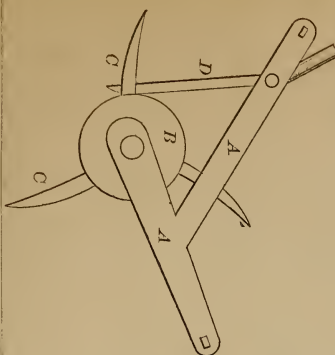


47425—J. F. Jones—*For Grinding Paper Pulp.*47429—I. Kinman—*Farm Gate.*47426—J. H. Jones—*Gas Heater.*47427—J. Kelly—*For Oiling Wool.*47430—G. F. Kolb—*Jewel Case.*47428—W. H. King—*Universal Chuck.*47431—A. Komp—*Hat Frame.*47432—B. J. La Mothe—*Fountain Pen.*47434—A. P. Lighthill—*For Inhaling Vapors.*47433—A. F. Lapham—*Washing Machine.*

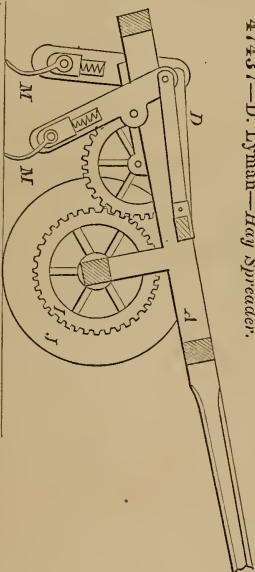
47441—W. V. McKenzio—Oil Press.



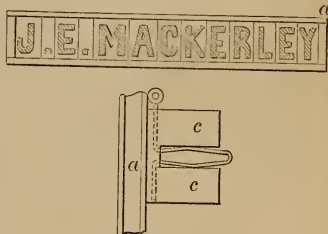
47439—R. Marsh—Cultivator.



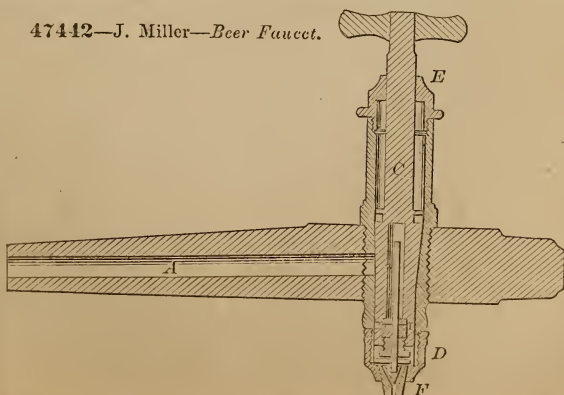
47437—D. Lyman—Hay Spreader.



47438—J. E. Mackerley—Name Plate.



47442—J. Miller—Beer Faucet.

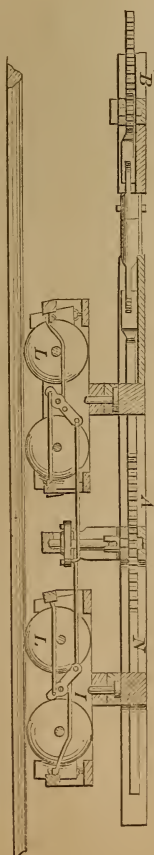


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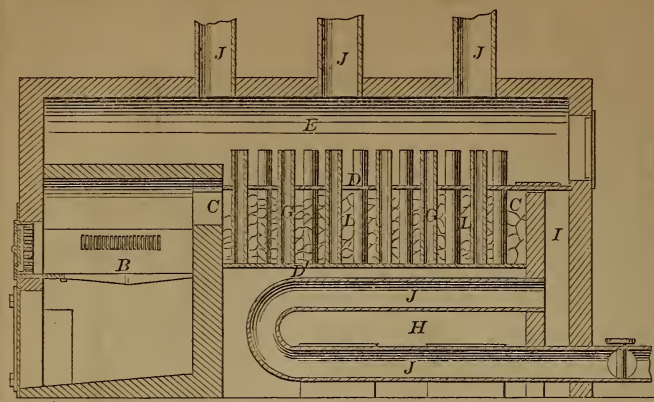
C. B. Long—Gear Cutting Rule.



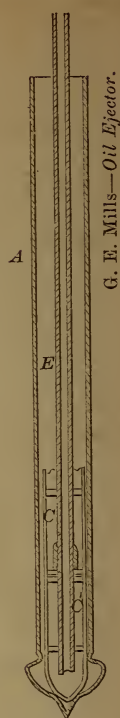
47440—A. F. McGrone—Car Brake.



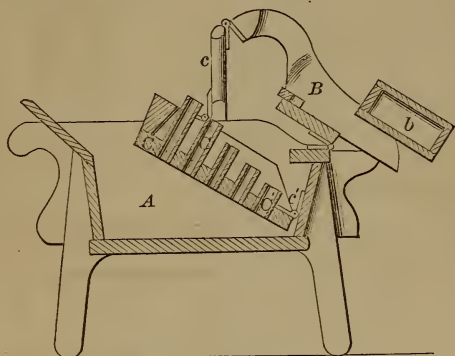
47443—J. A. Miller—*Hot Air Furnace.*



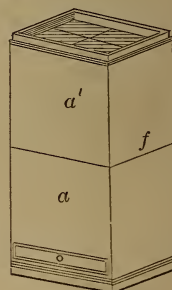
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47445—J. T. Mudge—*Washing Machine.*



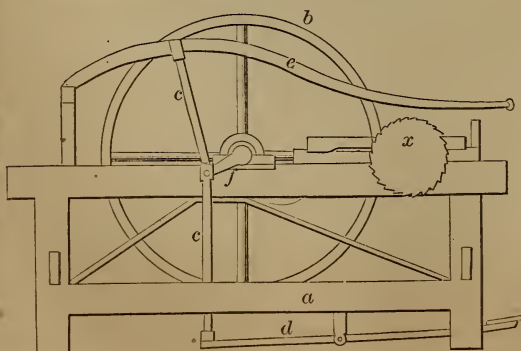
47448—C. C. Phelps—*Chimney*.



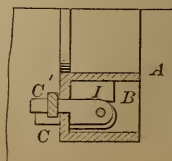
47446—L. H. Olmsted—*Ratchet Brace.*



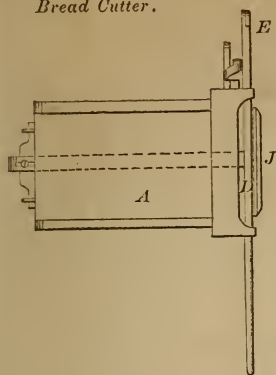
47447—I. E. Overpeck—*Manual Power.*



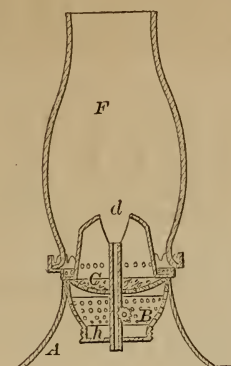
47449—C. L. Pierce—*Shingle Machine.*



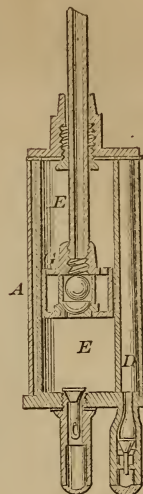
47450—J. F. Plass—
Bread Cutter.



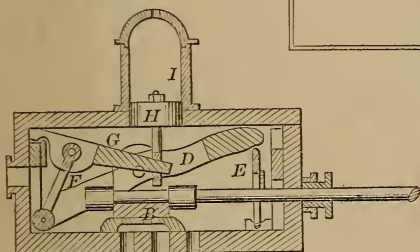
47451—A. H. Platt—
Coal Oil Lamp.



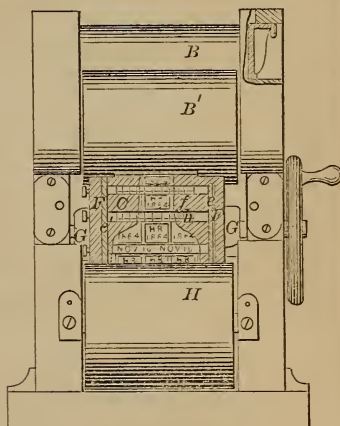
47452—A. F. Porter—
Pump.



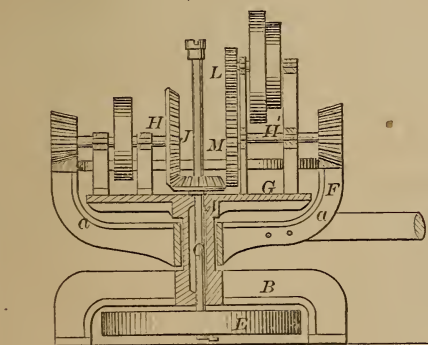
47453—J. Rankin—Balanced
Slide Valve.



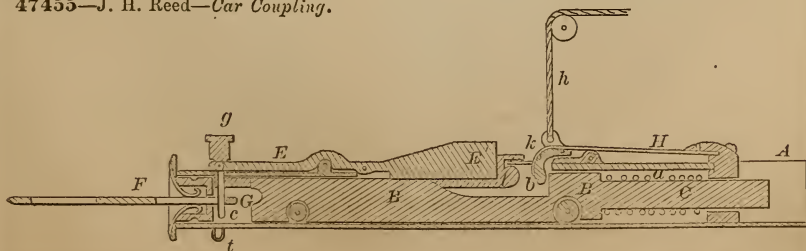
47454—H. Redlich—Printing Press.

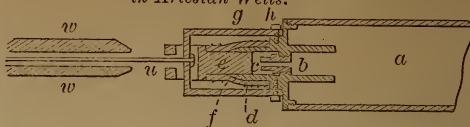
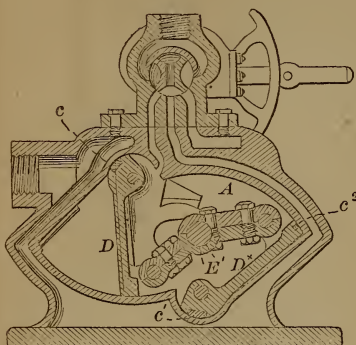
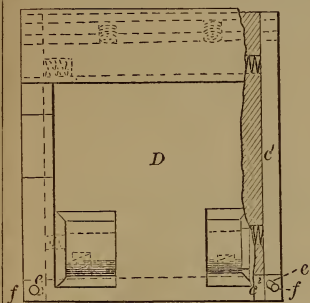
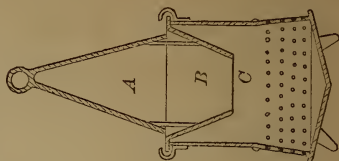
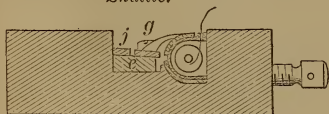
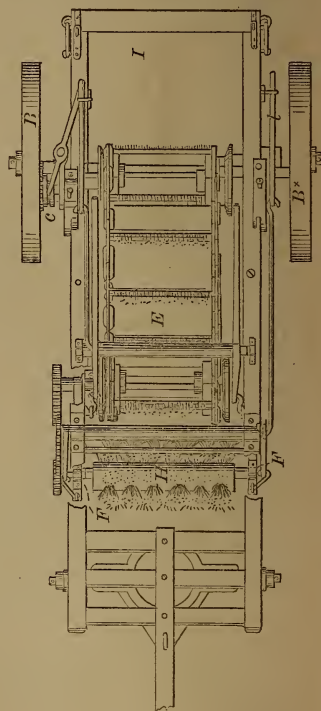
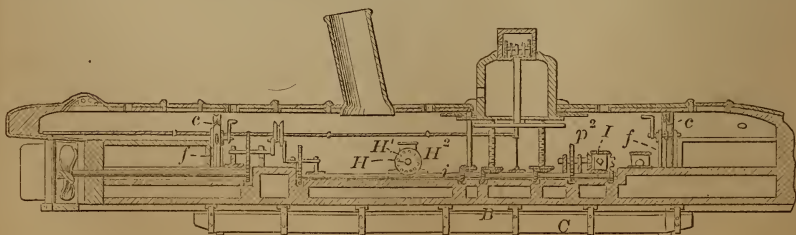


47456—J. W. Reid—Horse Power.

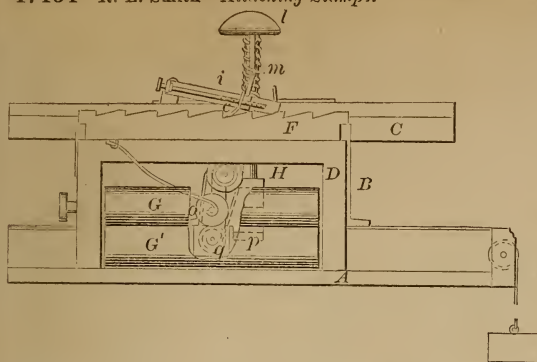


47455—J. H. Reed—Car Coupling.

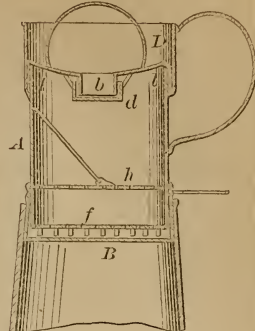


47457—G. S. Rice—*Hard Rubber.*47458—E. A. L. Roberts—*Exploding Torpedoes in Artesian Wells.*47459—J. B. Root—*Vibrating Piston Engine.*47460—W. F. Rossman—*Coffee Settler.*47462—F. Schenkl—*Sewing Machine Shuttle.*47461—D. Sargent—*Street Sweeping Machine.*47463—C. Slater—*Ships of War.*

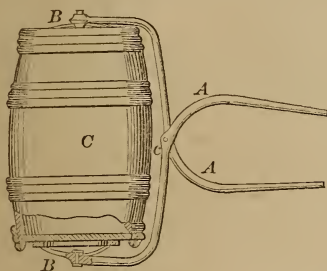
47464—R. L. Smith—Attaching Stamps.



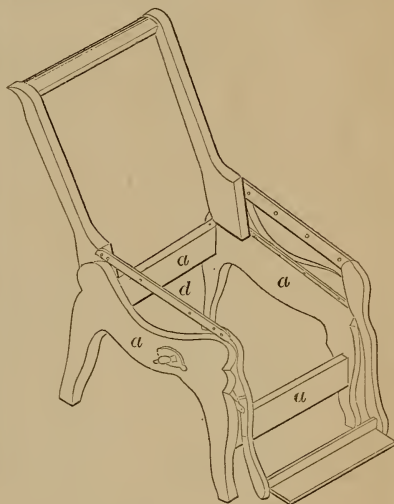
47466—J. H. Swing—Coffee Pot.



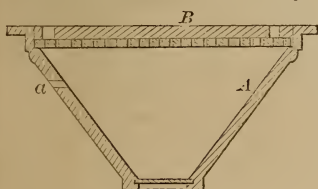
47465—H. W. Stephenson—Barrel Rolling Device.



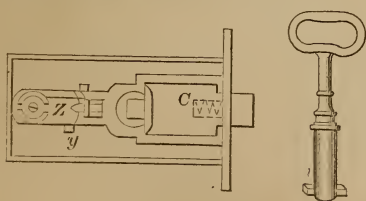
47469—H. Thompson—Chair.



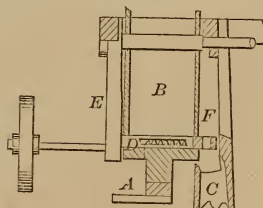
47467—Taylor & Holmes—Forge.



47470—B. M. Van Der Veer—Lock.

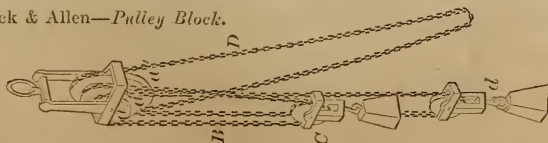


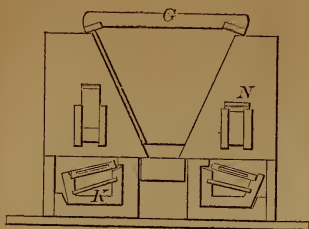
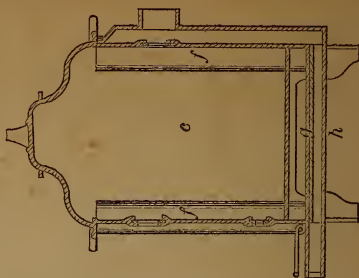
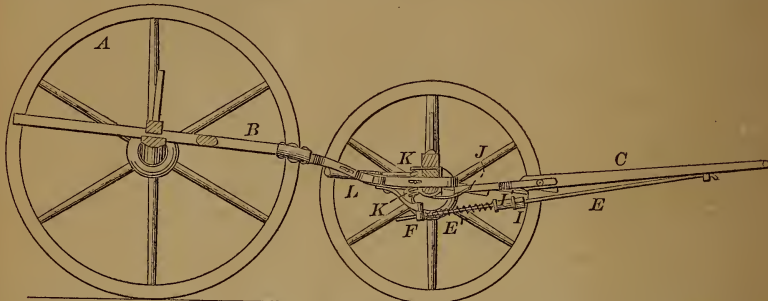
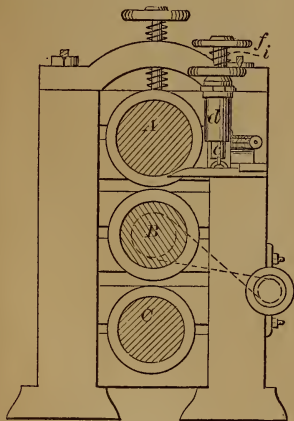
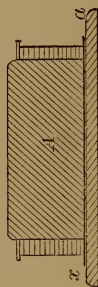
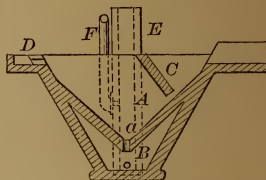
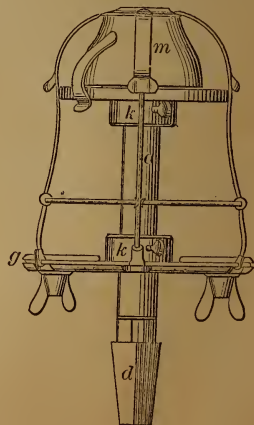
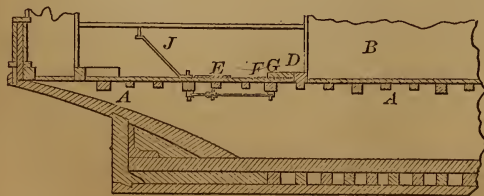
47468—J. C. Thomas—Corn Planter.



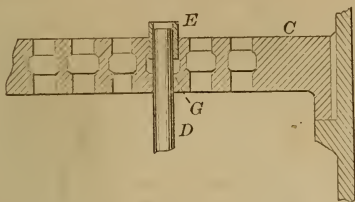
Van Hennick & Allen—Pulley Block.

47471—

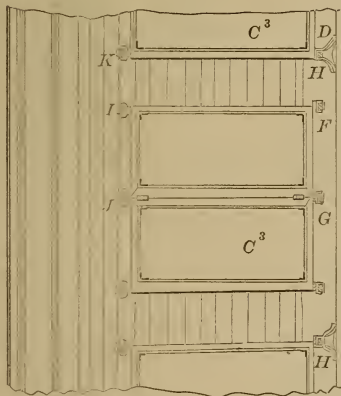
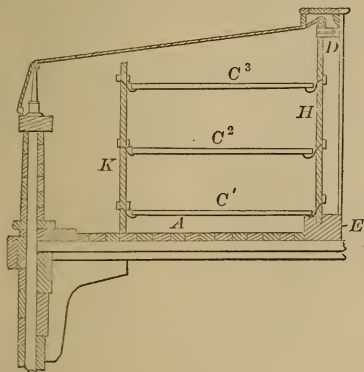


47472—J. M. Van Nest—*Feed Rack.*47474—G. W. Walker—*Stove.*47473—Z. B. Wakeman—*Vehicle.*47475—E. Wassell—*Rolling Mill.*47477—W. Webster—*Rubber Packing Former.*47476—J. Watson—*For Separating Ores.*47478—W. Westlake—*For making Lanterns.*47479—N. W. Wheeler—*Tram Way for Ferry Boats.*

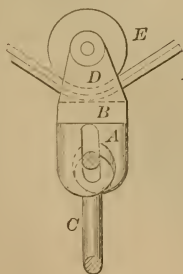
47480—N. W. Wheeler—Tubular Condenser.



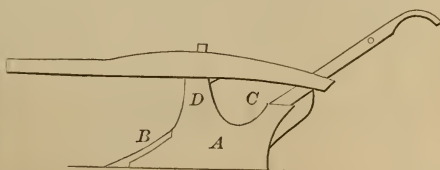
47481—N. W. Wheeler—Movable Berth.



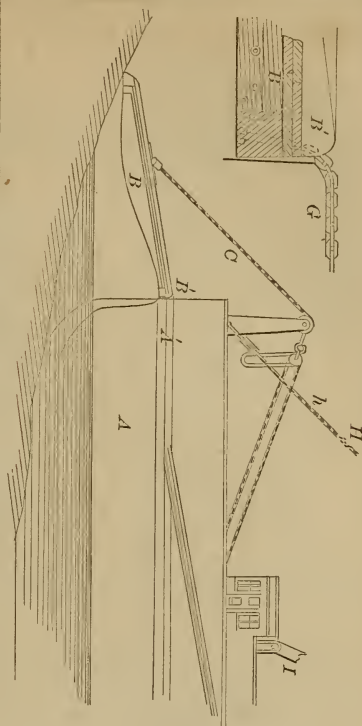
47485—H. F. Wilson—Shield for Breast Strap.



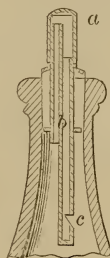
47486—T. Winslow—Plow.



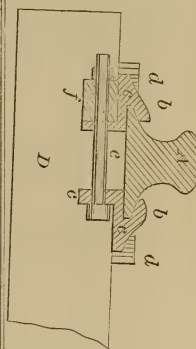
47482—N. W. Wheeler—Landing Platform.



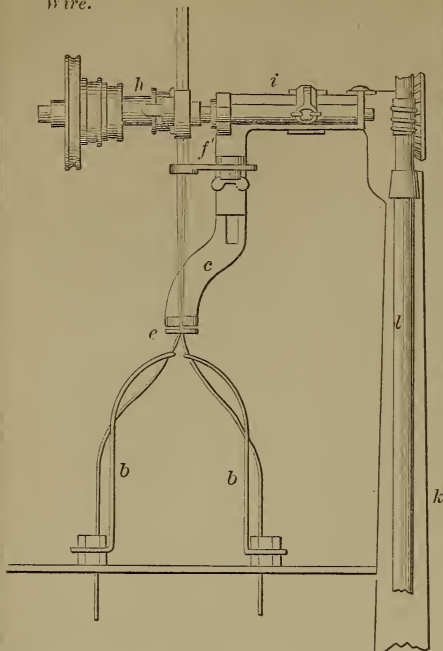
47483—E. R. Wilbur—Bottle Stopper.



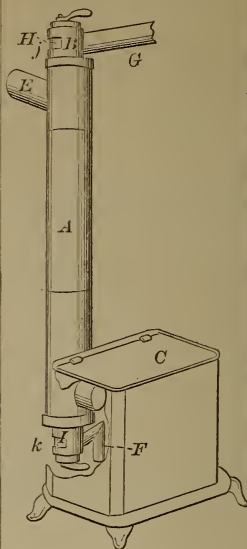
47484—J. E. Williams—Railway Chair.



47487—O. R. Burnham—For Covering Skirt Wire.

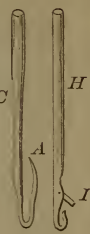


47489—D. C. Colby—Fuel Saving Device.

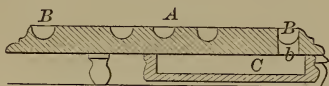


47488—

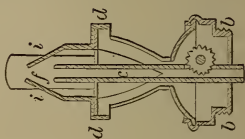
A. C. Carey—Knitting Machine Needle.



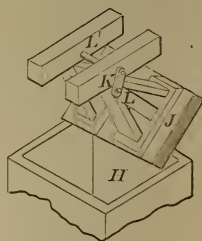
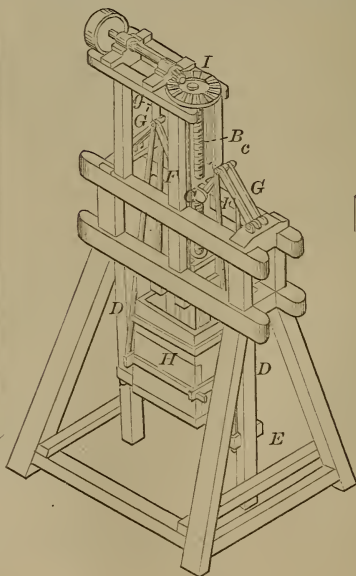
47491—J. T. Edson—Game Board.



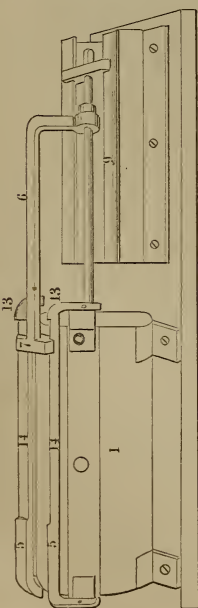
47493—A. Hicks—Lamp.



47490—G. C. Davis—Cotton Press.



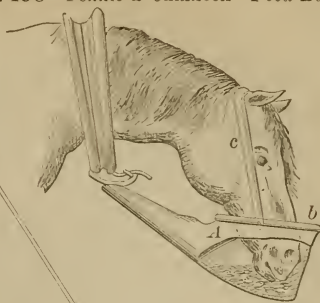
47492—C. E. Gage—Valve Gear.



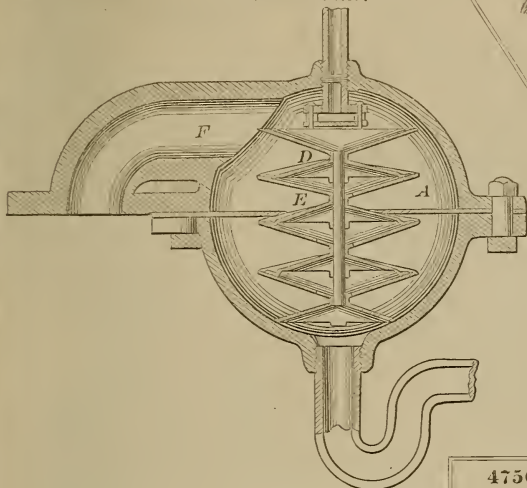
47495—C. H. Johnson—Horse Shoe.



47498—Pennic & Chinnock—Feed Bag.



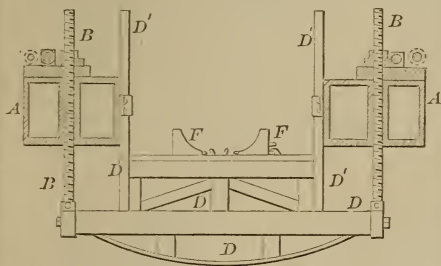
47499—R. Poole—Feed Water Heater.



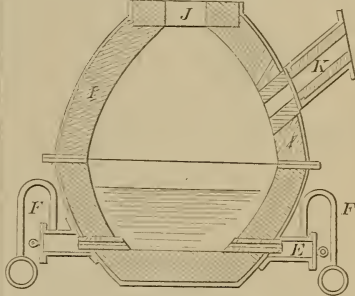
47500—J. Shepard—Fastening for Harness.



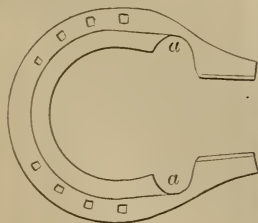
47501—E. Turner—Floating Dock.



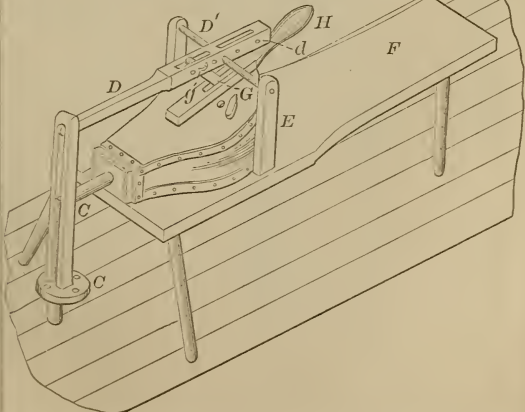
47506—G. Parry—Manufacture of Iron and Steel.



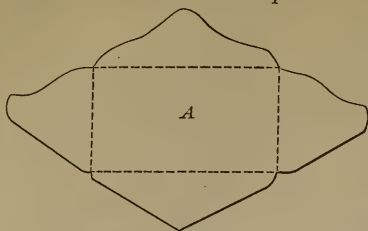
47502—A. Tyrrell—Horse Shoe.



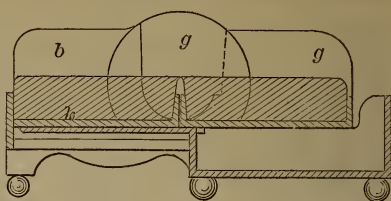
47507—C. T. Anderson—Churn.



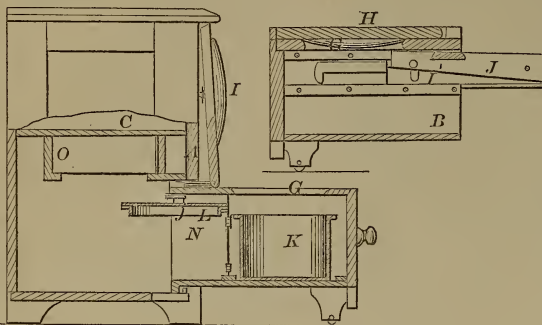
47508—J. G. Arnold—Envelope.



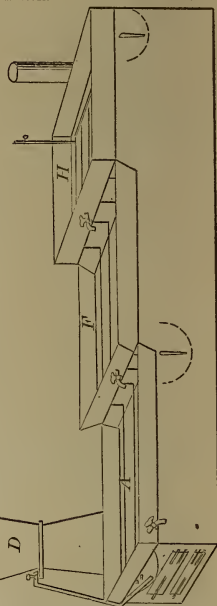
47512—E. Brady—Sofa Bedstead.



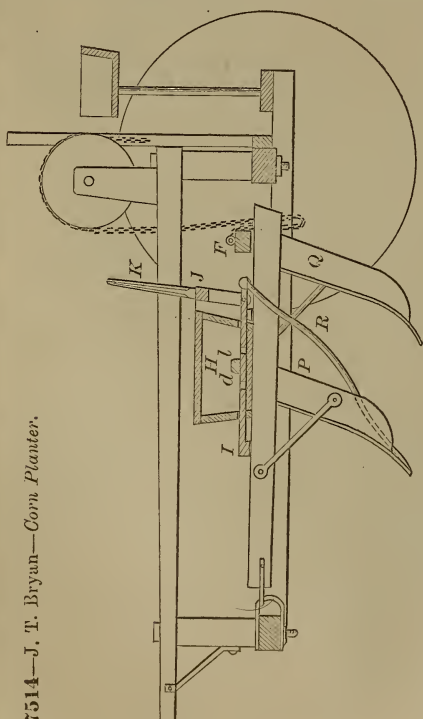
47509—C. H. Bagley—Sick Chair.



47511—G. Bez—Evaporating Pan.



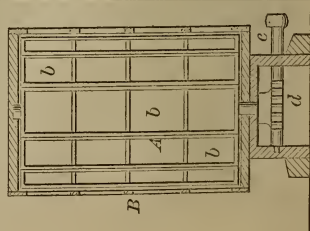
47514—J. T. Bryan—Corn Planter.



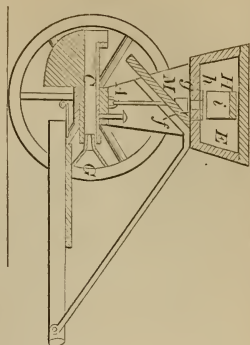
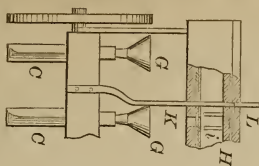
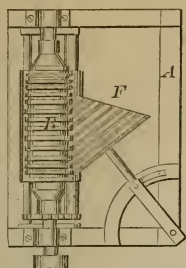
47513—M. Bray—Shoe Lacing.



47515—J. Buckett—Picture Holder.

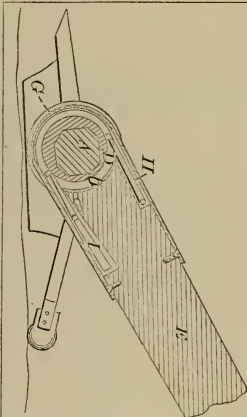
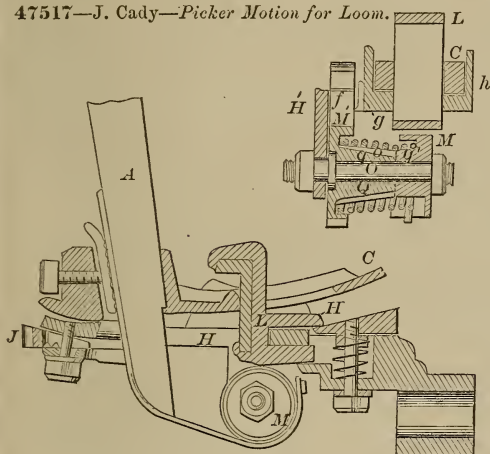


47516—Byrne & Henry—
Printing Hats.



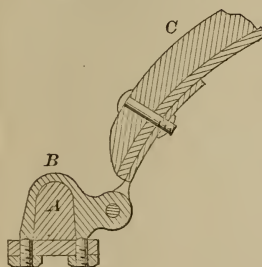
47518—C. C. Carter—Scything Machine.

47517—J. Cady—Picker Motion for Loom.

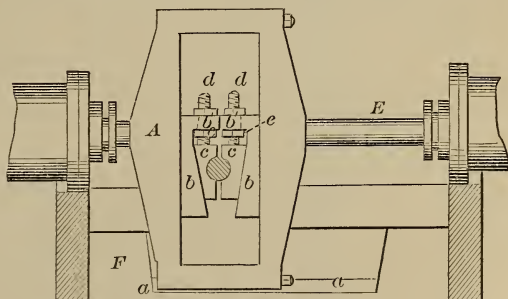


47519—P. S. Carver—Horse Rake.

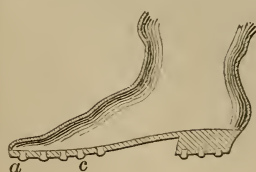
47520—E. D. Clapp—
Coupling for Thills.



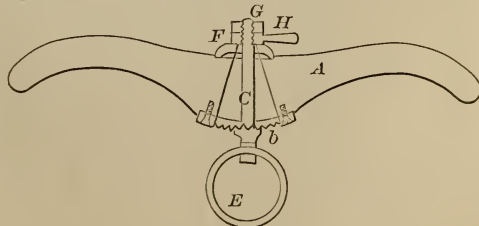
47522—J. Clayton—Crank Wrist Connection.

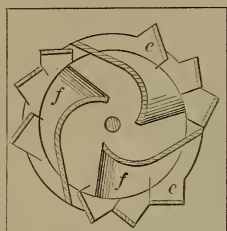
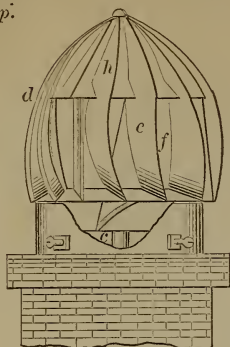
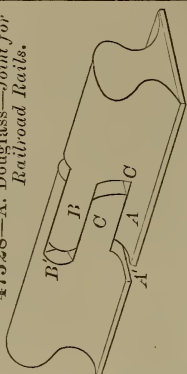


47521—G. P. Clark—Boots
and Shoes.

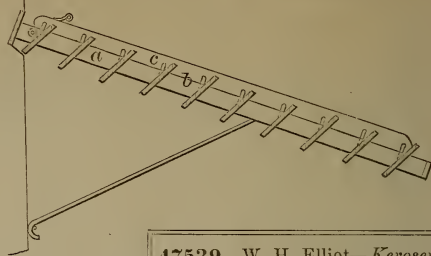
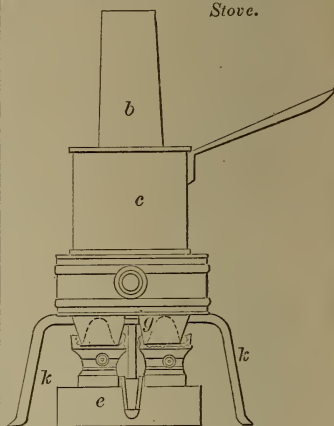


47523—W. R. Close—Ox Yoke.

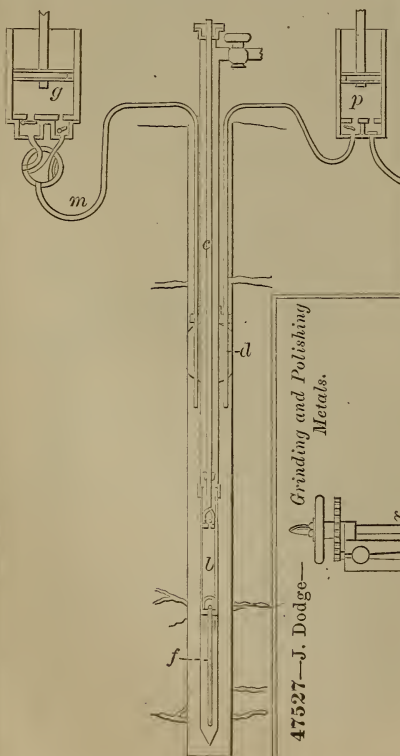


47525—G. W. Demond—Chimney
Cap.47528—A. Douglass—Joint for
Railroad Rails.

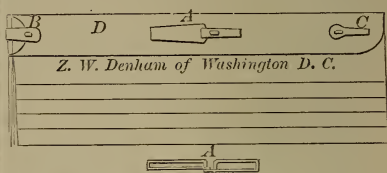
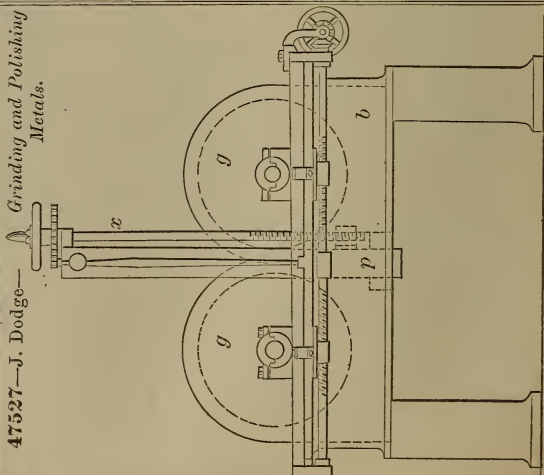
47524—J. Corduan—Awning and Reflector.

47529—W. H. Elliot—Kerosene
Stove.

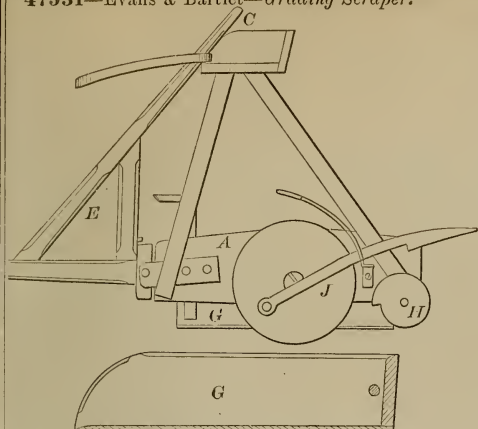
47530—W. H. Elliot—Oil Pump.



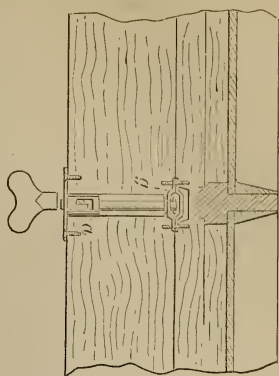
47526—Z. W. Denham—Paper Fastener.

47527—J. Dodge—Grinding and Polishing
Metals.

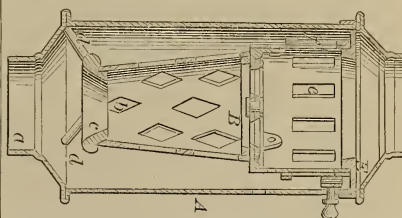
47531—Evans & Bartlett—Grading Scraper.



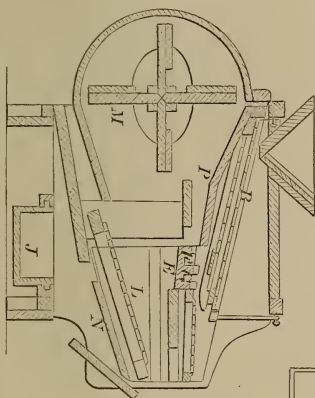
47537—F. G. Ford—Window Lock.



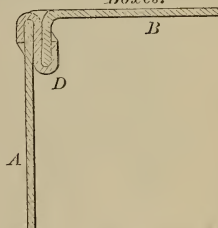
47535—D. G. Fletcher—Heel Heddler.



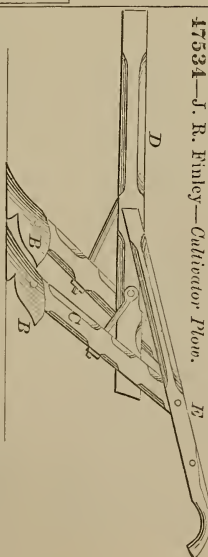
47533—A. Fanebonger—Fanning Mill.



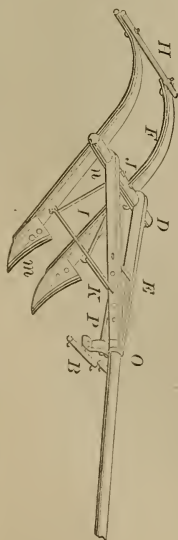
47532—H. Everett—Making Boxes.



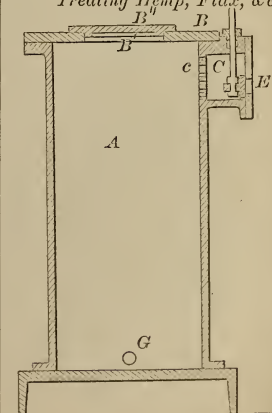
47534—J. R. Finley—Cultivator Plow.



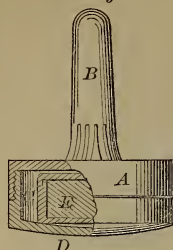
47536—C. Ford—Shoel Plan.



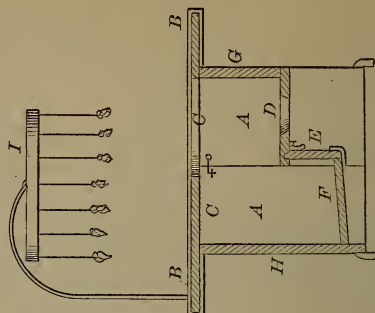
47539—Fuller & Upham—Treating Hemp, Flax, &c.



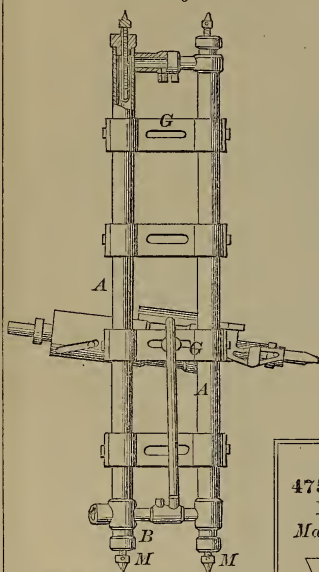
47540—J. P. Gilbert, M.D.—
For Curing Piles.



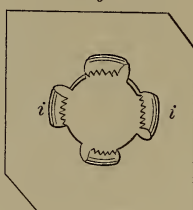
47542—G. W. Hawk—Chair and Cradle.



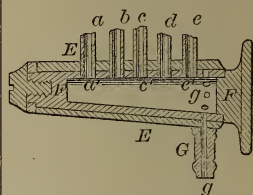
47541—H. Haupt—
Mounting Drill.



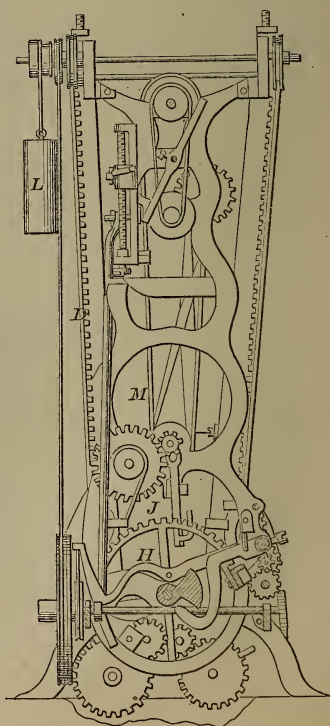
47543—B. S. Hill—For
Cutting Screws.



47546—D. Hurd—Rotating
Stop Cock.



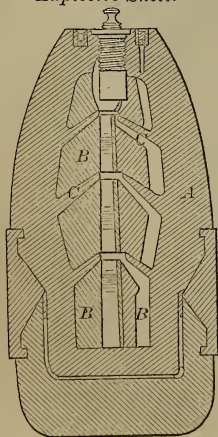
47547—J. Goulding—Spinning Yarn.



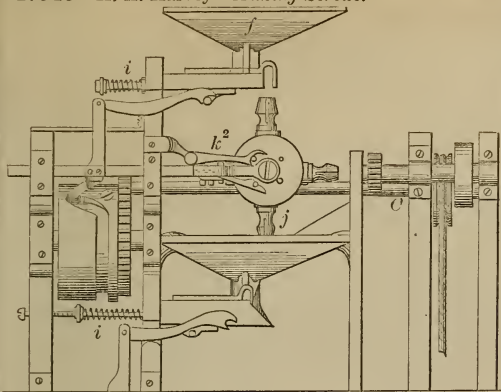
47548—
H. A. Harvey—
Making Screws.



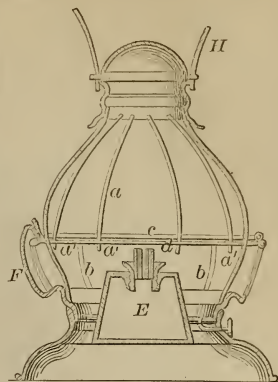
47544—B. B. Hotchkiss—
Explosive Shell.



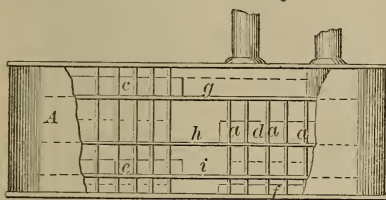
47549—H. A. Harvey—*Making Screws.*



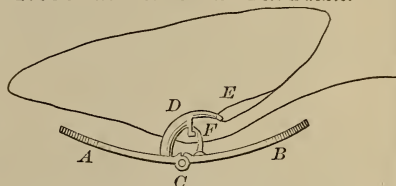
47551—J. H. Erwin—*Lantern.*



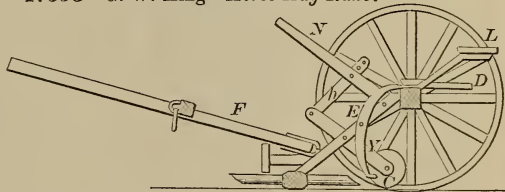
47550—D. Hurd—*Carburetting Air.*



47556—F. & C. Lemme—*Belt Buckle.*



47553—G. W. King—*Horse Hay Rake.*

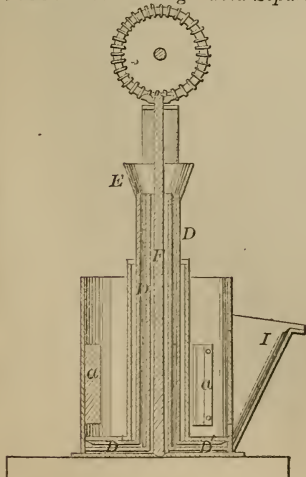


R. H. Lecky—*Coupling Shaft.*

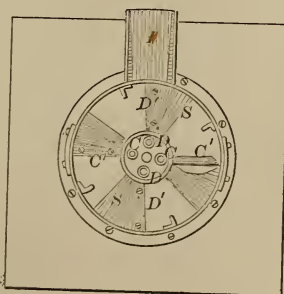


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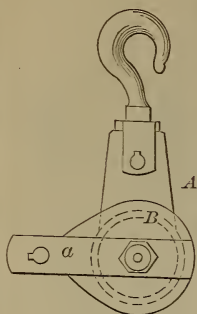
47557—W. H. Long—*Gold Separator.*



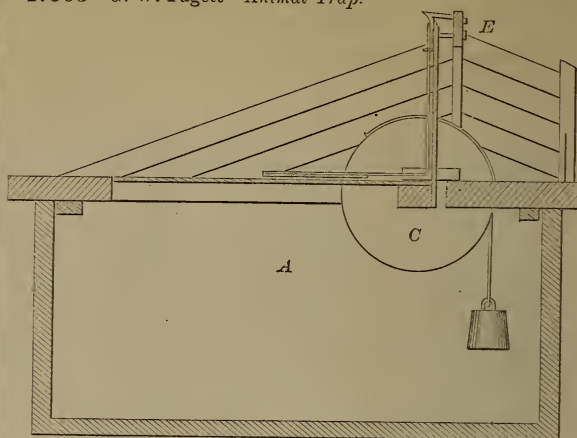
47554—
R. H. Lecky—*Coupling Shaft.*



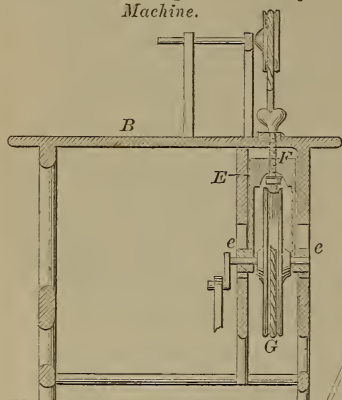
47558—P. Luck—
Pulley.



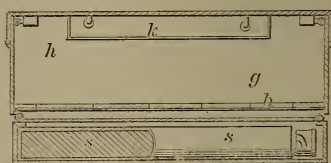
47563—G. W. Pagett—*Animal Trap.*



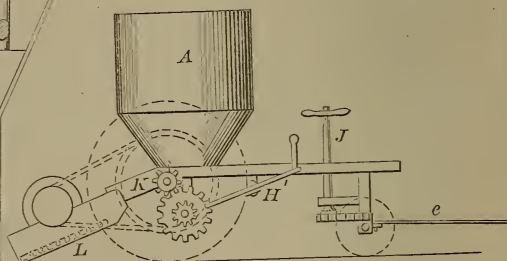
47560—N. Niederpruem—*Sewing Machine.*



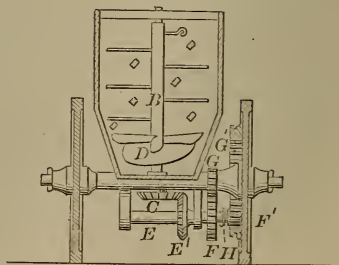
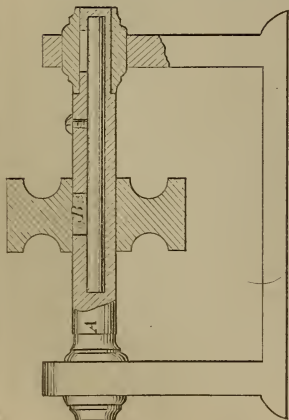
47559—J. F. Morgan—*Lunch Box.*



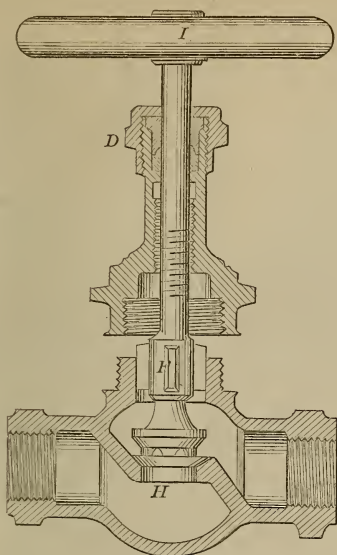
47564—N. F. Potter—*Preparing Peat.*



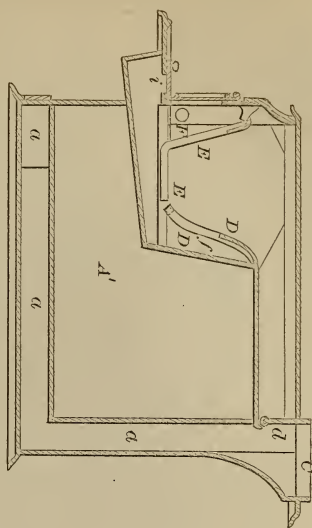
47561—L. H. Olmsted—*Lubricator.*



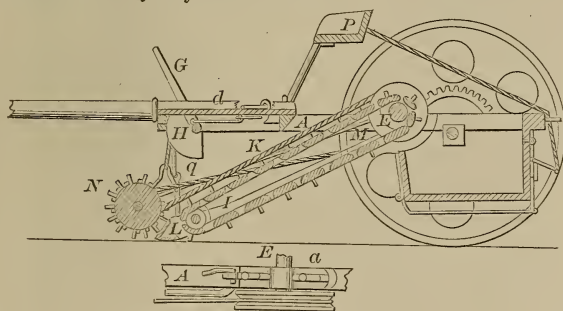
47565—J. Powell—*Globe Cock.*



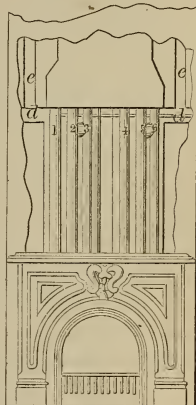
47567—Rathbone & Hailes—Store.



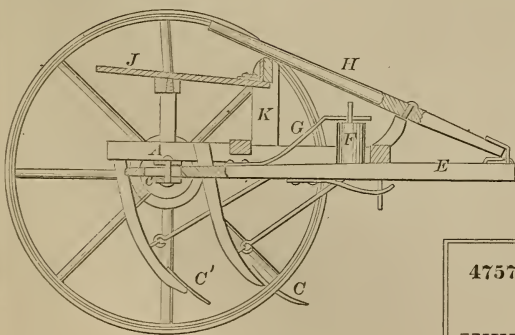
47566—J. L. Quinby—*Stone Gatherer.*



47569--H. Richardson--
Heating Building.

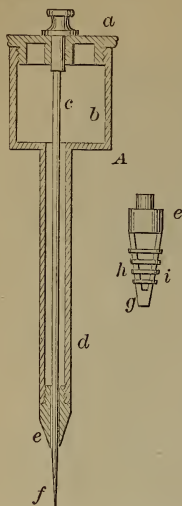


47568—Rhodes & Porter—*Cultivator*.

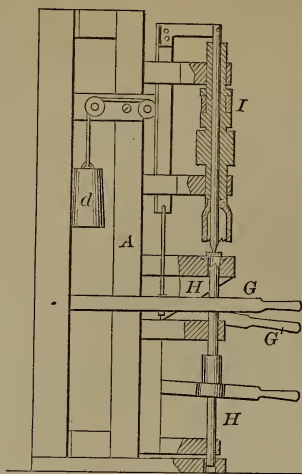
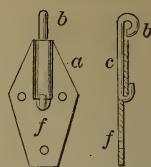


47570—C. D. W. Ries—*Tug Buckle*.

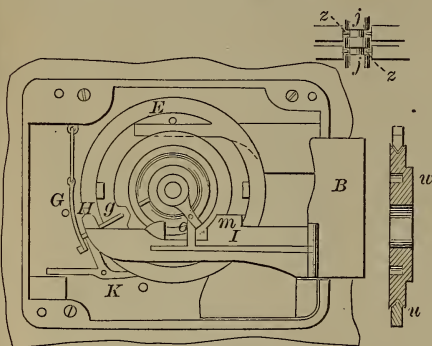


47571—C. B. Rogers—
Making Dice, &c.

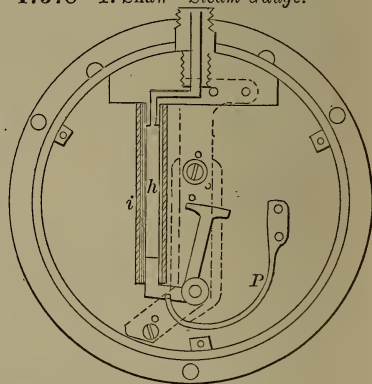
47572—C. B. Rogers—Cutting Ivory.

47573—L. Rowland—
Bucket Ear.

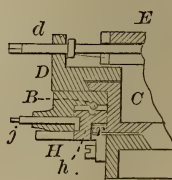
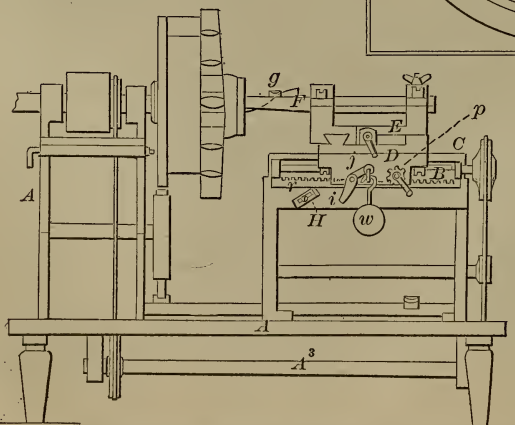
47575—Sargent & Covert—Lock.



47578—T. Shaw—Steam Gauge.



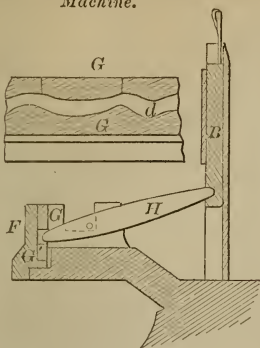
47576—P. Schuttler—Boring Hub.



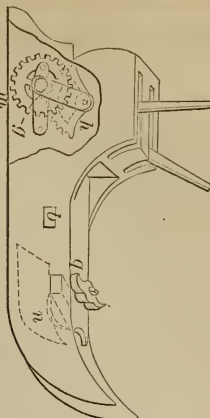
47574—C. W. Saladec—Harness Buckle.



47579—C. Shirtcliff—Knitting Machine.

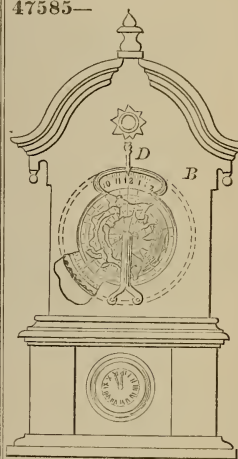


47580—H. Smith—Steel or Carriage.

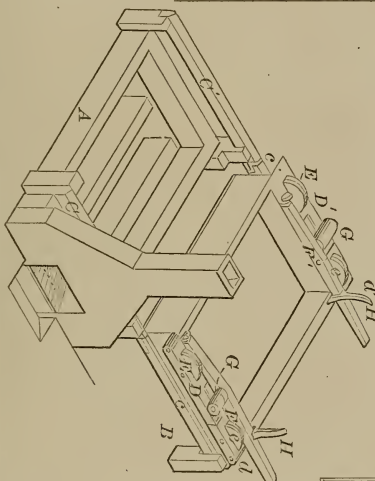


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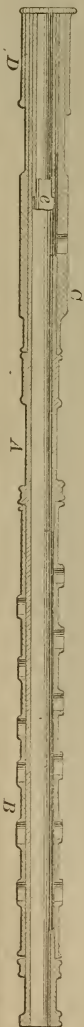
T. R. Timby—Globe Clock.



47583—M. Tibbets—Shifting Sugar Pan.



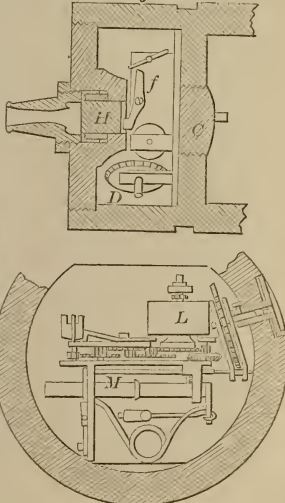
47582—A. H. Stratton—Fife and Flute.



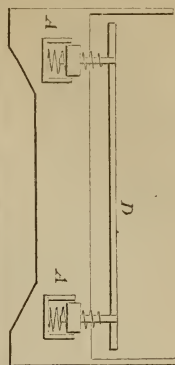
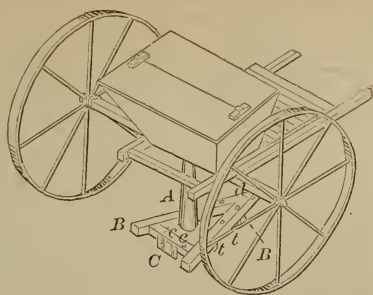
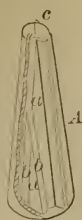
47584—T. R. Timby—Globe Time Piece



47586—F. Toggenburger—Exploding Shells by Clock Work.

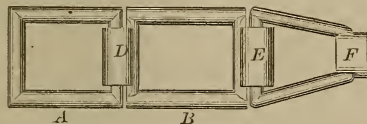


47593—L. Woodruff—Seed Planter.

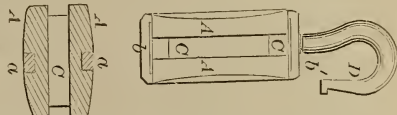


47594—Woods & Smith—Spring Bedstead.

47595—P. Anderson—Chain for Water Elevator.

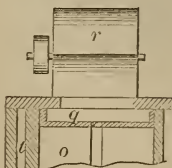
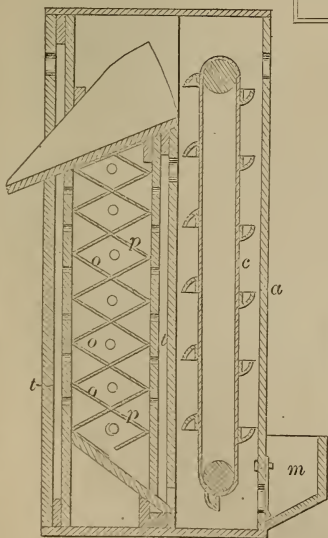


R. P. Fuller—Pulley Block.

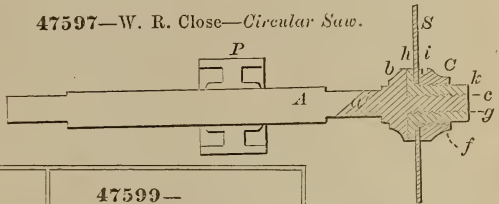


47598—

47596—L. S. Chichester—Grain Dryer.

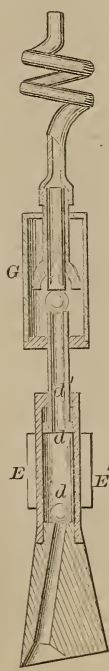


47597—W. R. Close—Circular Saw.



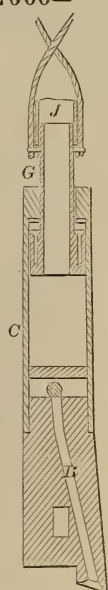
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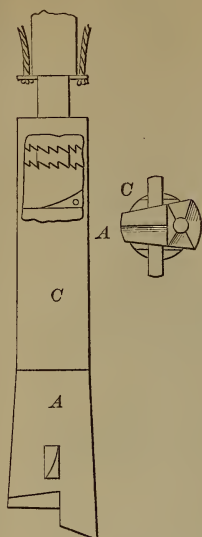
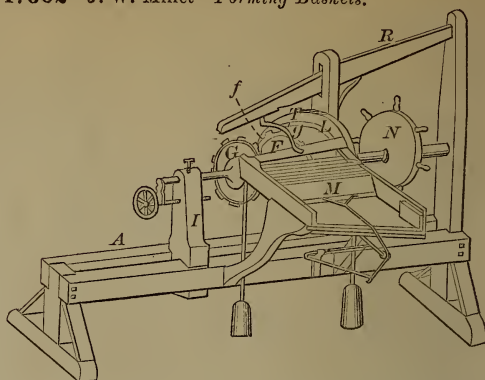
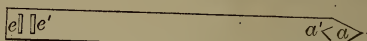
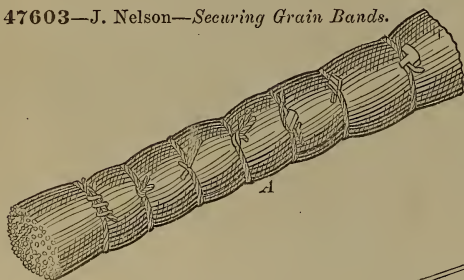
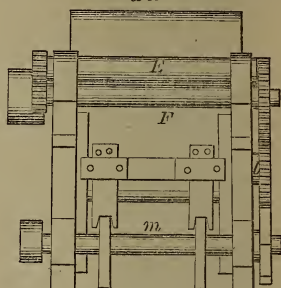
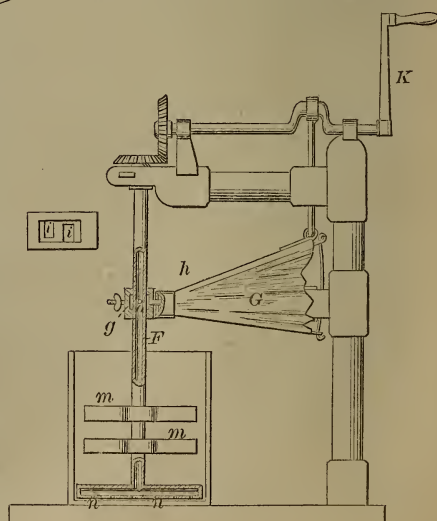
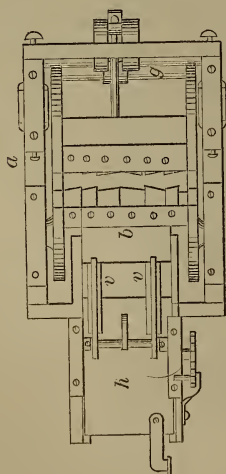
T. J. Lovegrove—Well Borer.



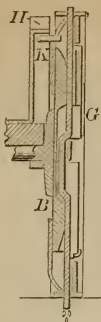
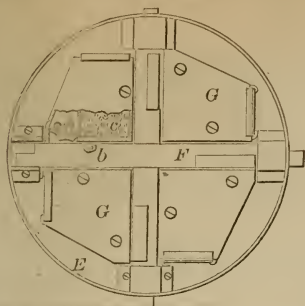
47600—

T. J. Lovegrove—Well Borer.

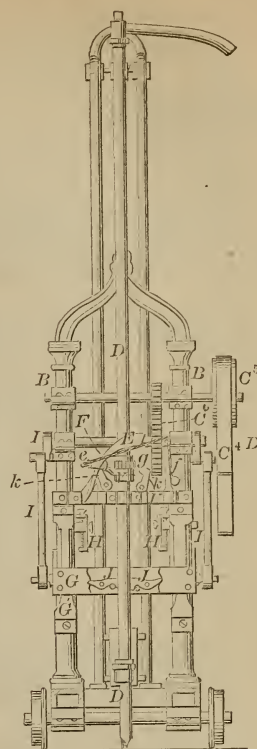


47601—T. J. Lovegrove—*Rock Drill.*47602—J. W. Millet—*Forming Baskets.*47606—W. T. Slocum—*Making Metal Boxes.*47603—J. Nelson—*Securing Grain Bands.*47604—E. Phillips—*Dressing Flax, &c.*47607—A. J. Smith—*Pneumatic Churn.*47605—E. Reynolds—*For Cutting Nails.*

47608—J. N. Adams—*Corn Planter.*



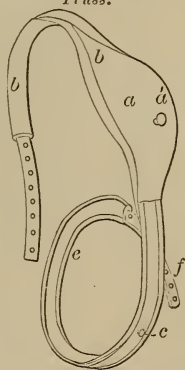
47609—L. Atwood—*Oil Boring.*



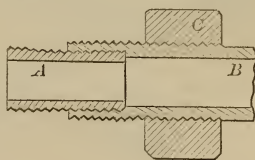
47610—E. P. Baugh—*Super Phosphate of Lime.*



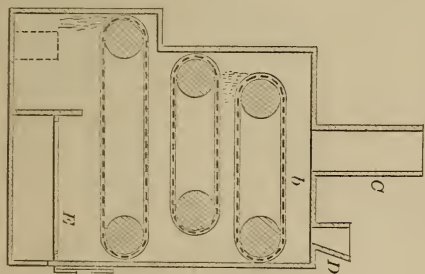
47612—C. W. Betzel—*Truss.*



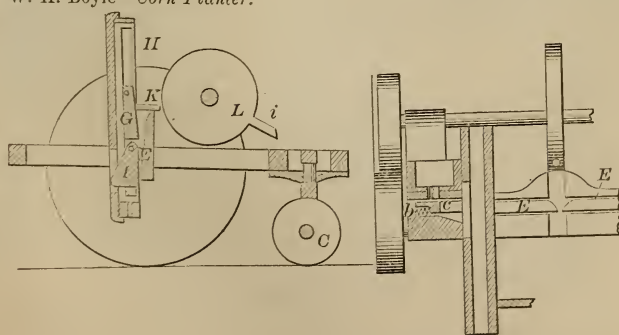
47613—J. N. Bolles—*Coupling Shaft of Boring Tools.*

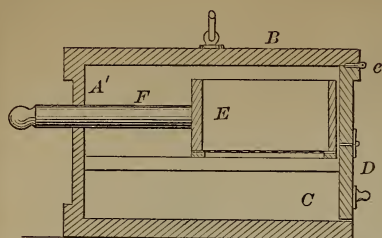
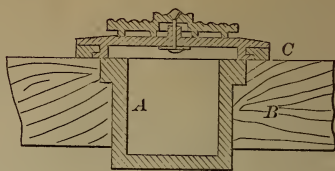
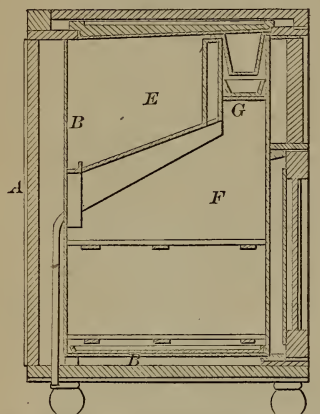
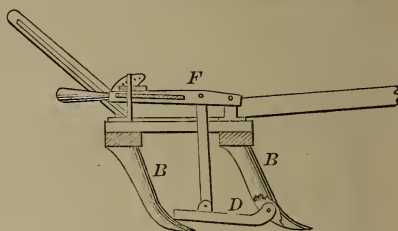
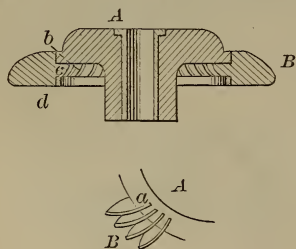
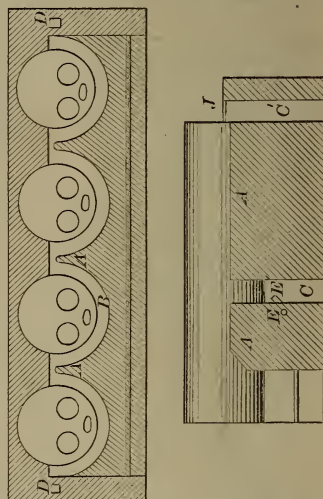
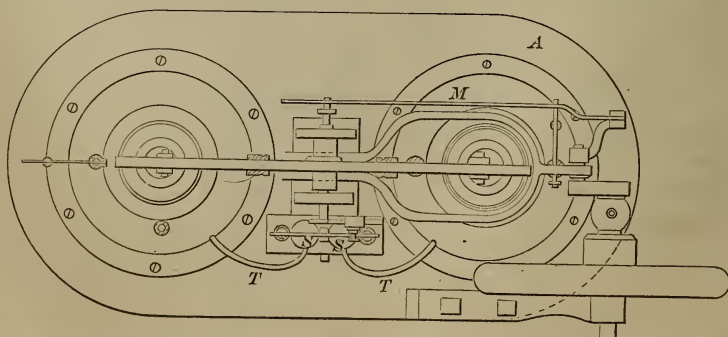


47611—E. P. Baugh—*Treating Machine.*

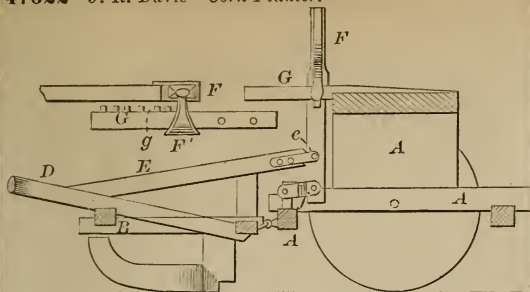


47614—W. H. Boyle—*Corn Planter.*

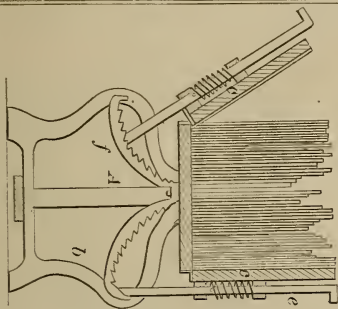
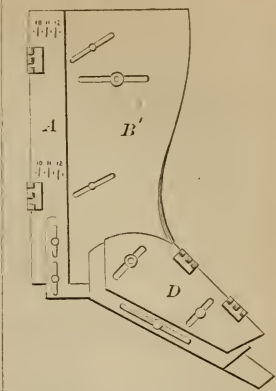


47615—T. W. Brown—*Ash Sifter*.47616—F. C. Brownell—*Ink Well*.47617—L. D. Bunn—*Refrigerator*.47618—P. S. Carhart—*Cultivator*.47620—J. Clute—*Knitting Machine Bur*.47619—T. H. Clark—*Boiler Furnace*.47621—E. Danford—*Steam Engine*.

47622—J. R. Davis—Corn Planter.

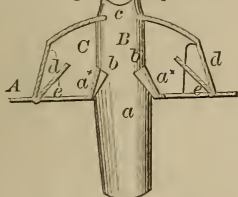


47623—A. D. Drew—Pattern for Boot.

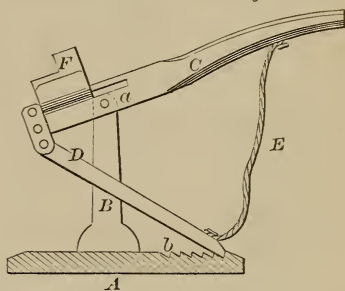


47624—L. Dubernet—Portfolio Stand.

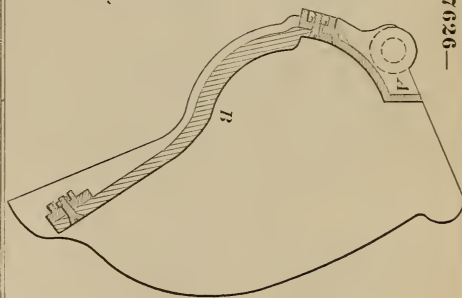
47625—J. P. Egan—Lamp Burner.



47628—R. Fink—Carriage Jack.

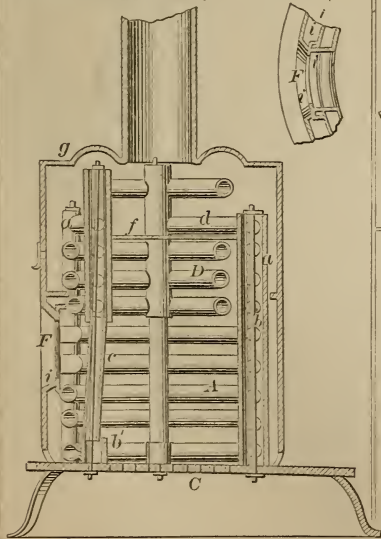


W. B. Emery—Cotton Gin.

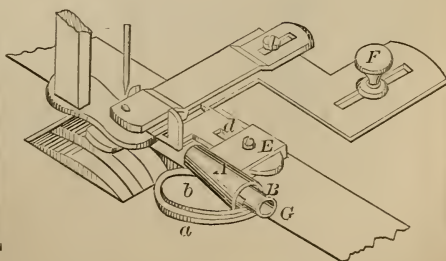


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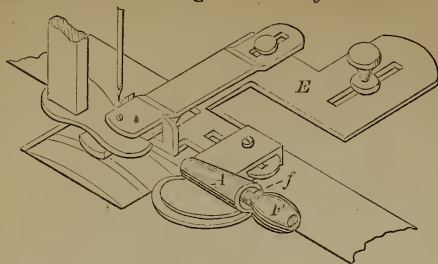
47627—R. & H. V. Faries—Steam Generator.



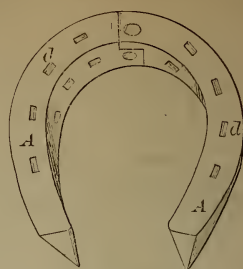
47629—W. Gaskill—Hemming Guide.



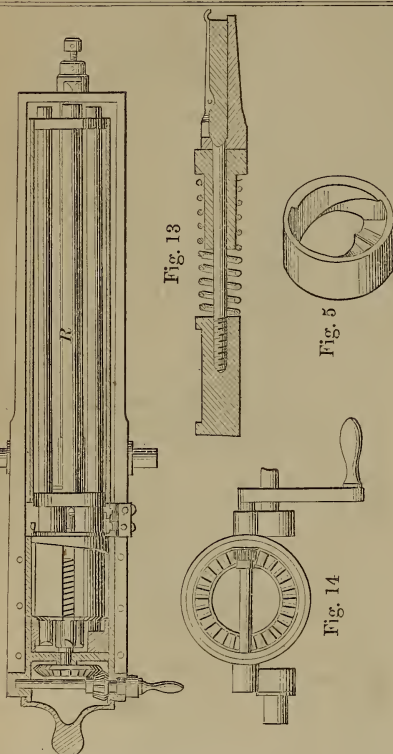
47630—Gaskill & Knight—Hemming Guide.



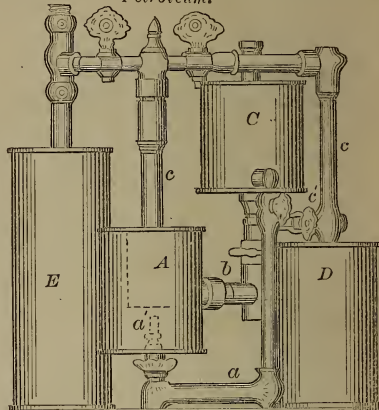
47635—L. M. Guiteau—Horse Shoe.



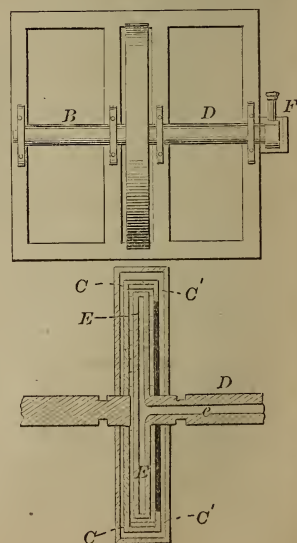
47631—R. J. Gattling—Battery Gun.



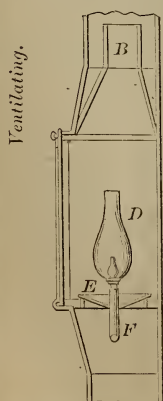
47634—D. M. Graham—Gas from Petroleum.



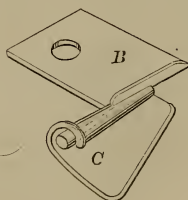
47636—S. Harris—Steam Engine.



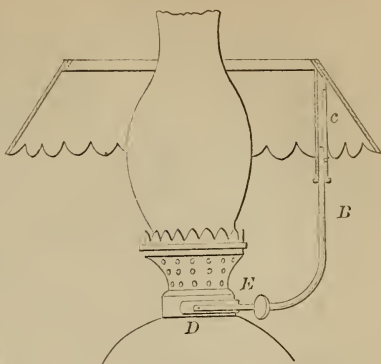
47633—H. A. Gouge—Ventilating.



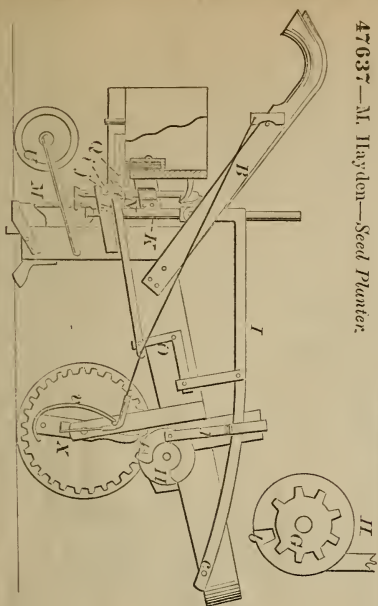
47632—H. Goebel—Sewing Machine.



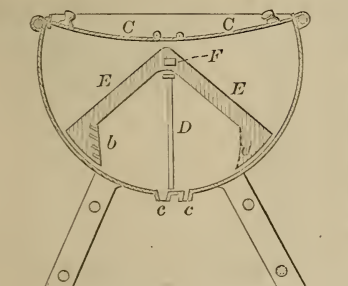
47638—A. M. Hills—*Lamp Shade.*



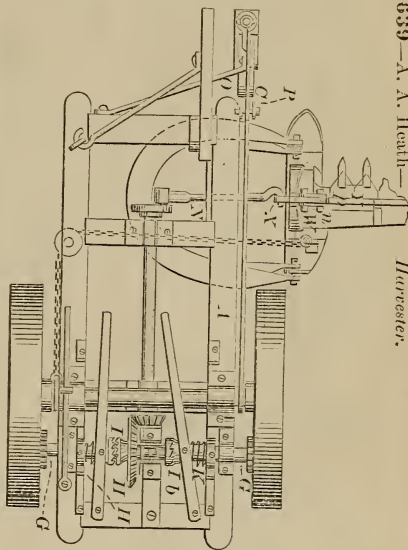
47637—M. Hayden—*Seed Planter.*



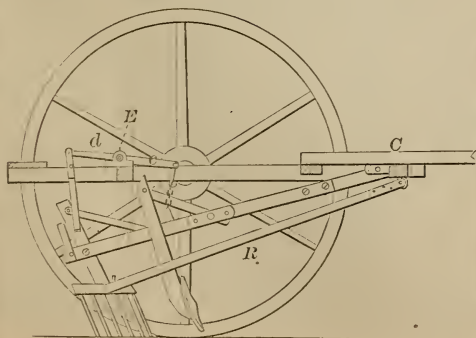
47640—E. Hodgkins—*Washing Machine.*



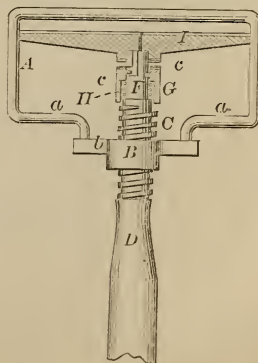
47639—A. A. Heath—*Harvester.*



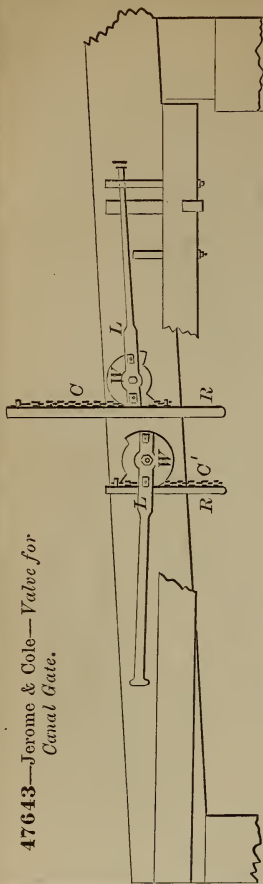
47641—J. Hollingsworth—*Cultivator.*



47642—N. Holmes—*Mop Head.*

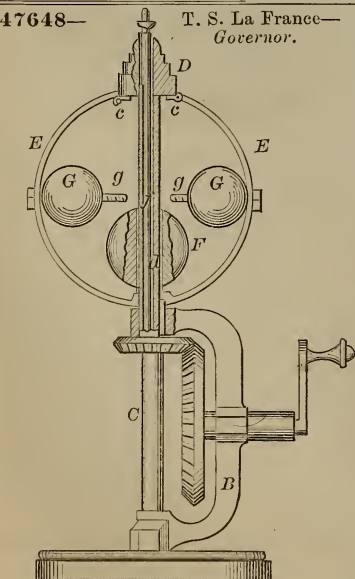


47643—Jerome & Cole—Valve for Canal Gate.

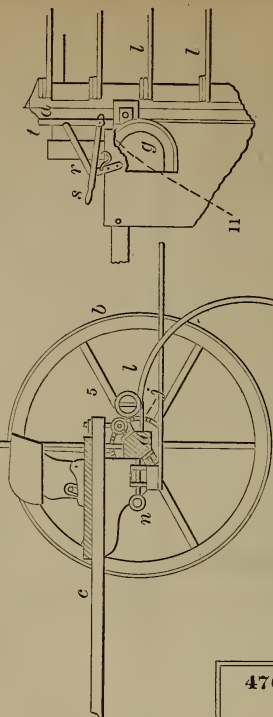


47648—

T. S. La France—Governor.

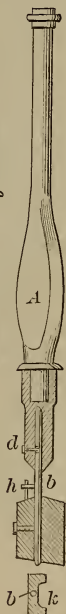


47644—J. D. Jones—Horse Rake.

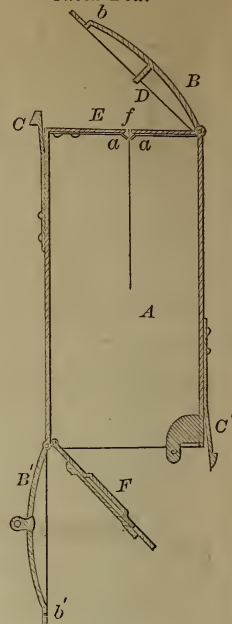


47645—

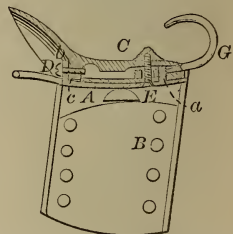
M. Kleeman—Setting Glaziers' Diamond.



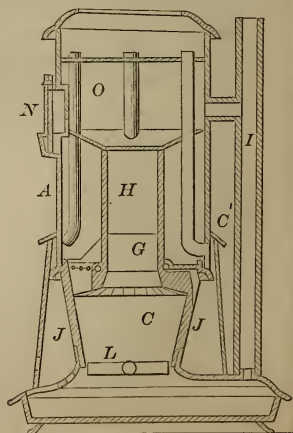
47646—T. W. Knox—Check Box.



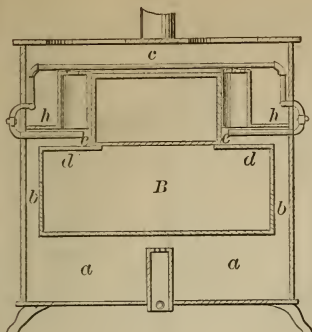
47647—A. Koehler—Harness Saddle Tree.



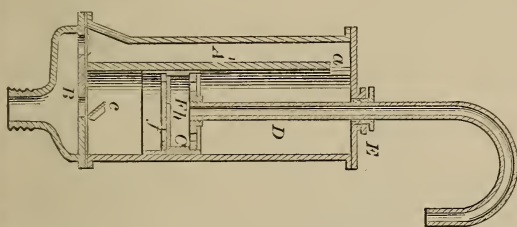
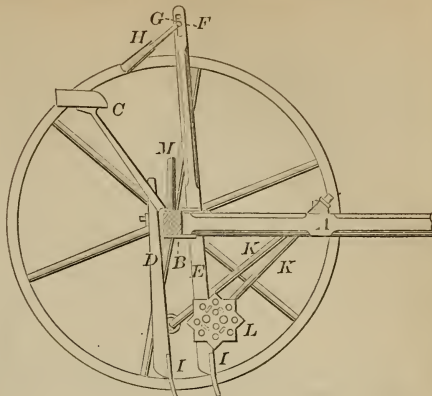
47649—W. E. Lane—Coal Stove.



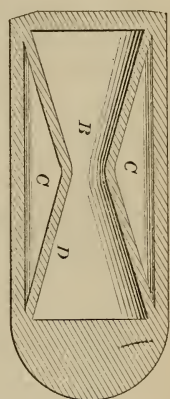
47650—E. A. Leland—*Gas Cooking Stove.*



47655—J. Mills—*Cultivator.*

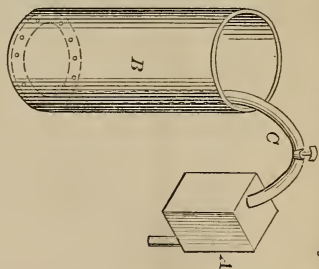
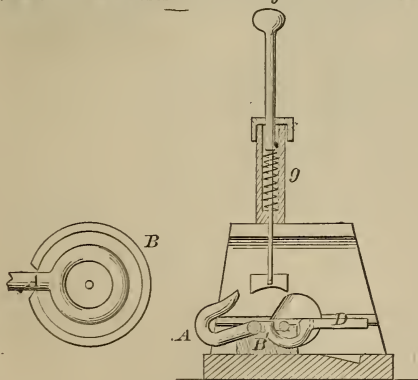


47652—G. Marshall—*Pump.*



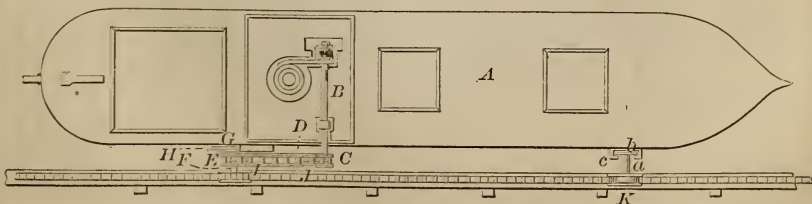
47651—H. W. Libbey—*Explosive Shell.*

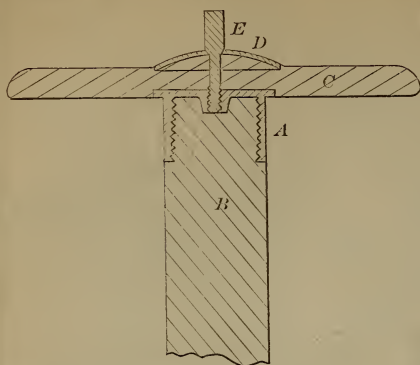
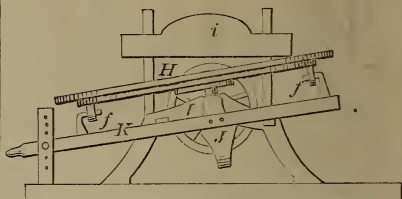
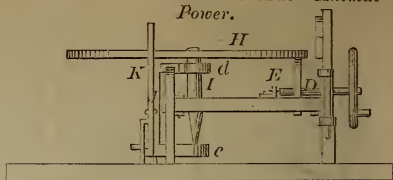
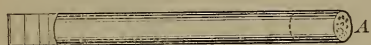
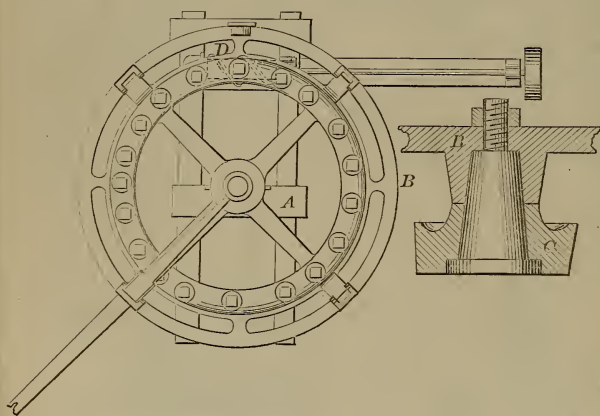
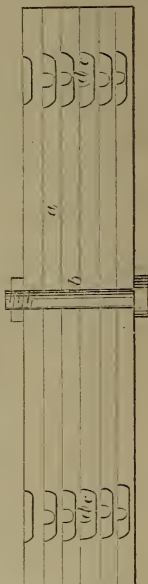
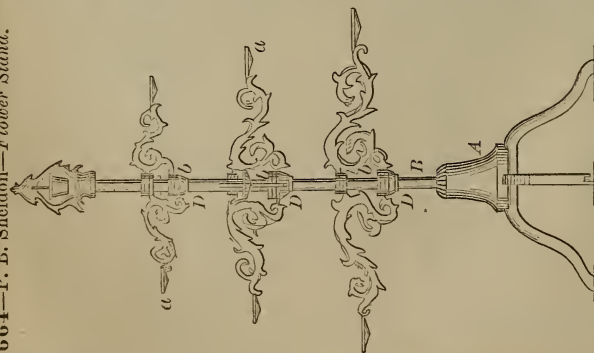
47656—J. W. Norcross—*Casting Tackle Blocks.*



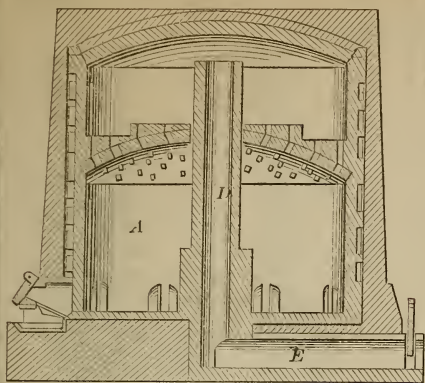
47654—R. McGrath—*Fluid Ejector.*

47657—N. P. Otis—*Canal Propeller.*

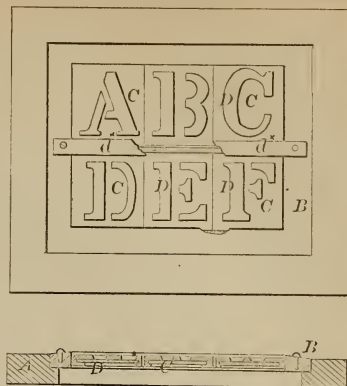


47658—L. N. Parks—*Spool.*47659—C. M. & G. Richards—*Animal Power.*47660—T. C. Richards—*Cigarette.*47662—E. P. Russell—*Horse Power.*47663—T. Shaw—*Spring.*47664—P. B. Sheldon—*Flower Stand.*47665—S. S. Ritter—*Screw and Button.*

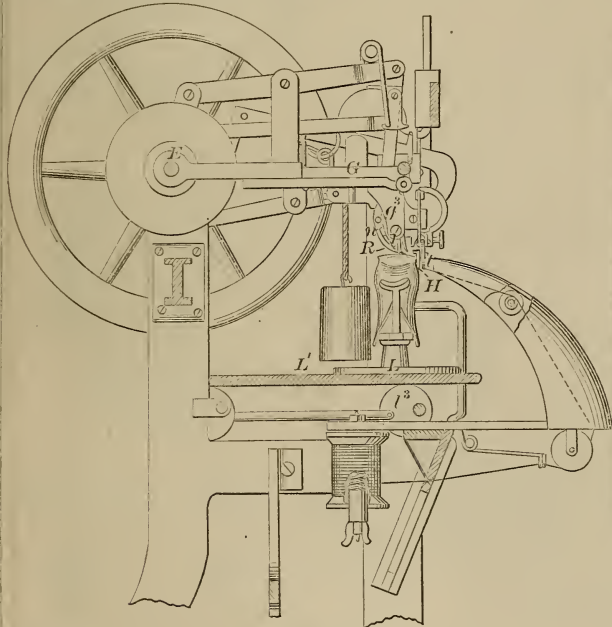
47665—J. N. Stanley—*Kiln for Pottery Ware.*



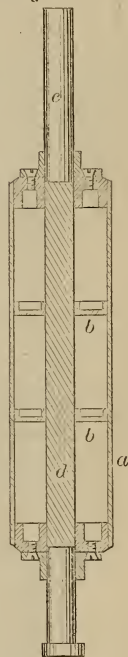
47669—J. L. Tarbox—*Illuminated Sign.*



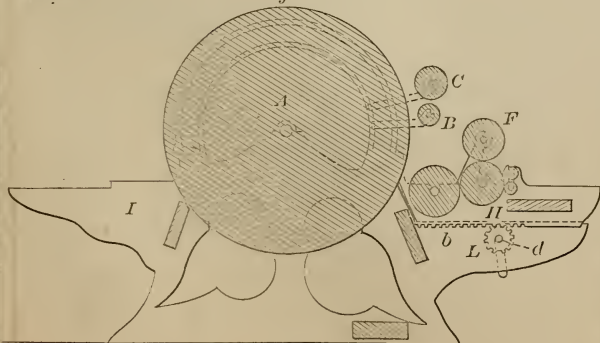
47666—M. J. Stein—*Sewing Machine.*



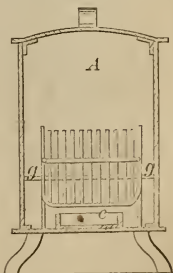
47667—J. M. Stone—
Drawing Frame Roll.

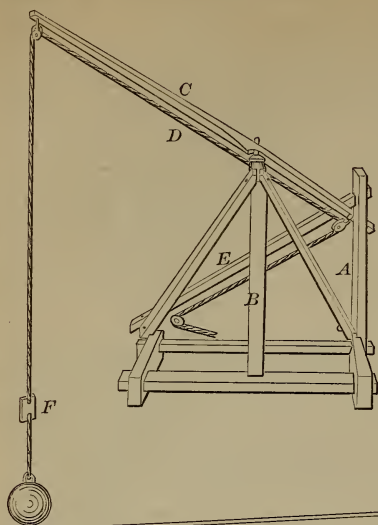
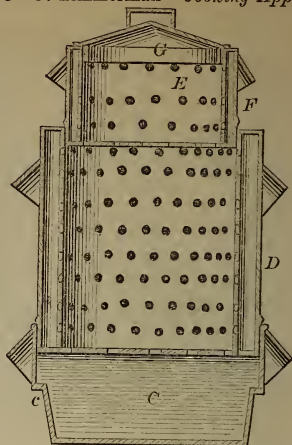
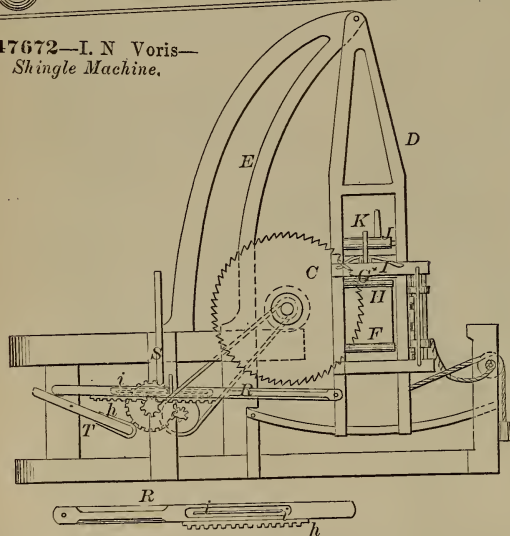
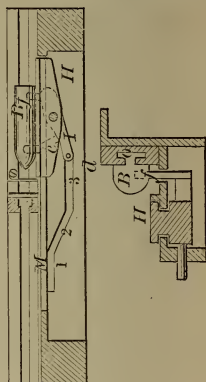
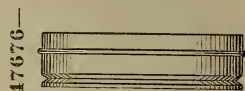
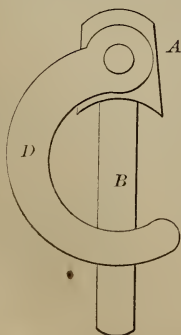
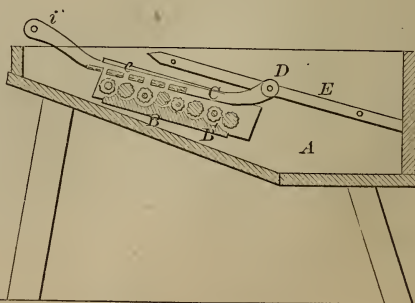


47668—D. Tainter—*Carding Machine.*

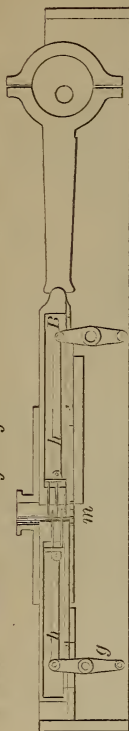


47670—J. S. Todd—
Coal Store.

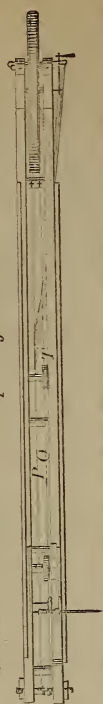


47671—E. J. Toof—*Hay Elevator.*47675—J. Zimmerman—*Cooking Apparatus.*47672—I. N. Voris—*Shingle Machine.*47673—J. Wensley—*Sewing Machine.*G. W. Bentley—*Blackening Box.*47674—G. Wright—*Linch Pin.*47678—H. L. Buckwater—*Washing Machine.*

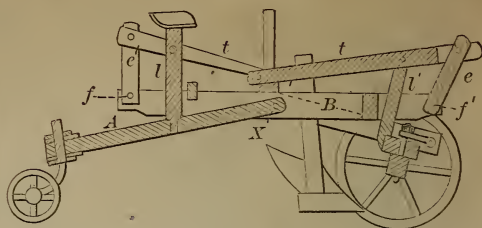
47684—J. Steele—Dressing Clay.



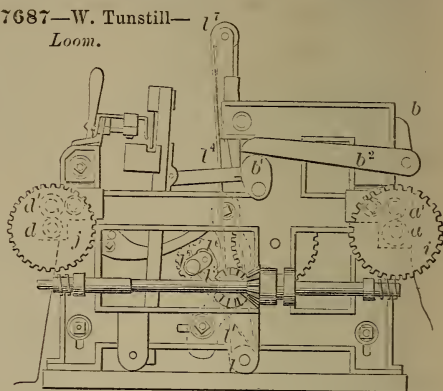
47685—D. B. Tetley—Hand Spinning Machine.



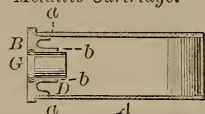
47686—J. E. Travis—Gang Plow.



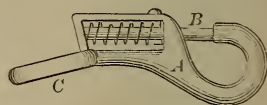
47687—W. Tunstill—Loom.



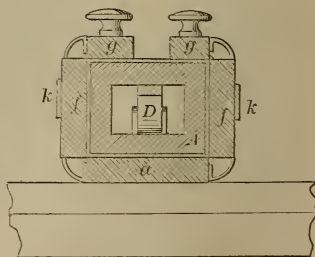
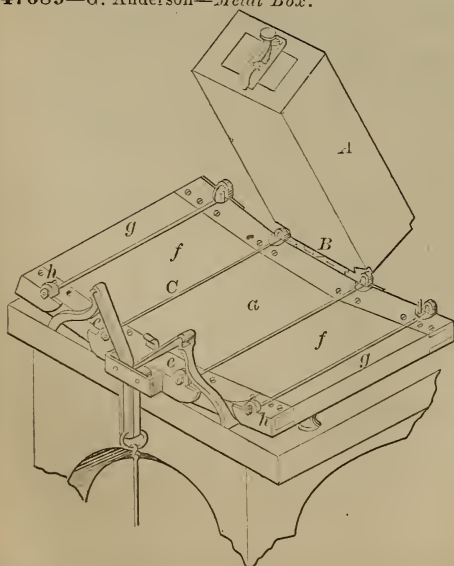
47688—E. Allen—Metallic Cartridge.



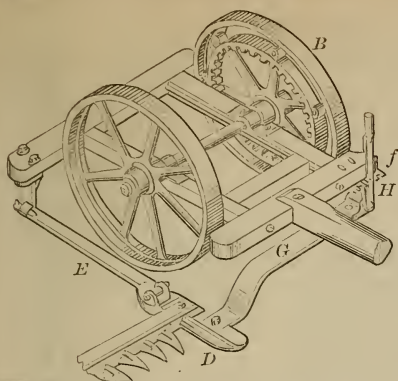
47690—J. Bailey—Snap Hook.



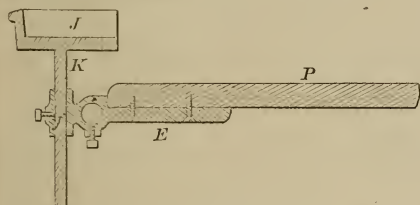
47689—G. Anderson—Metal Box.



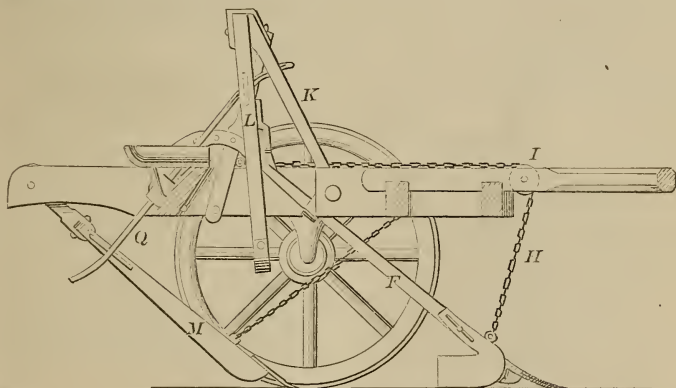
47691—S. S. Bartlett—*Harvester*.



47692—S. S. Bartlett—*Mowing Machine.*



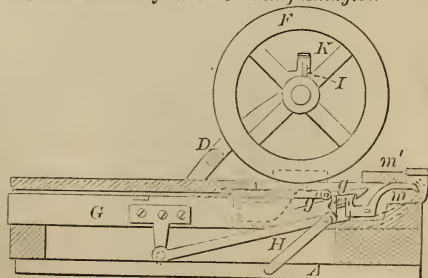
47693—W. E. Bates—*Cultivator*.



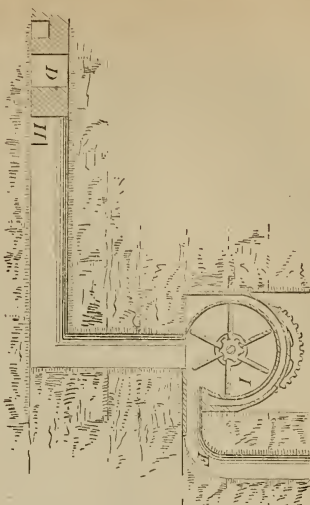
47695—A. Bickel—Crutch.



47697—M. Bonney—*For Counting Shingles.*

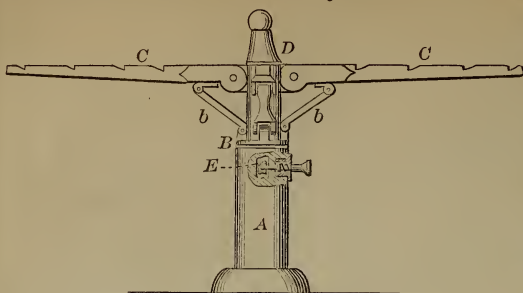
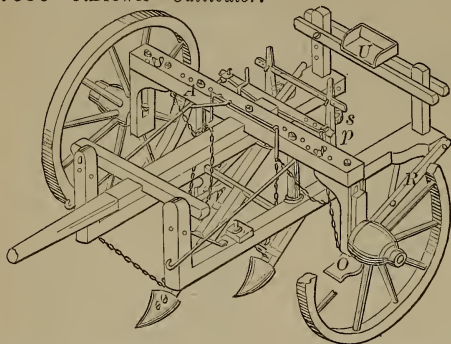
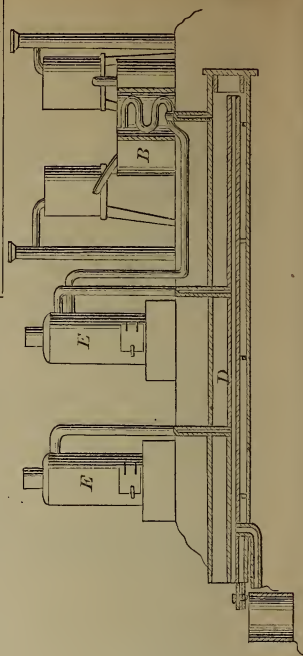
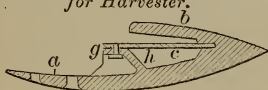
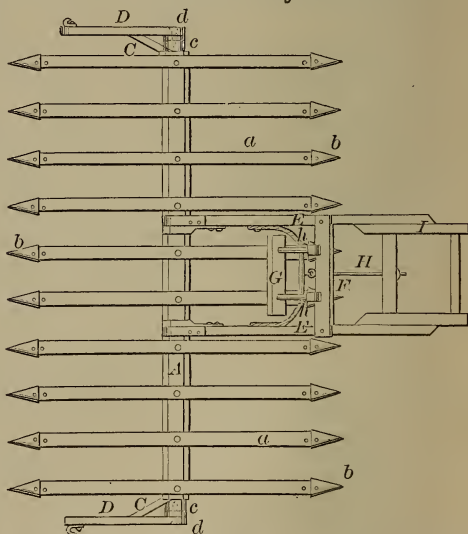
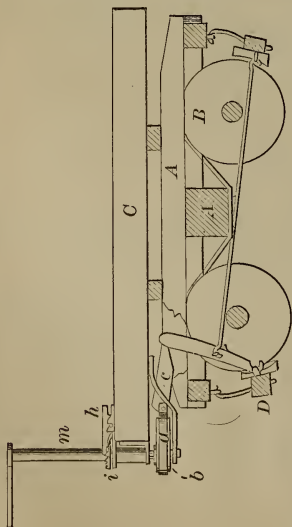
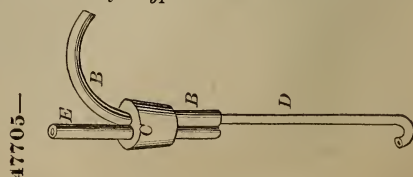


47694—J. L. Beadle—*Ventilation of Mines.*

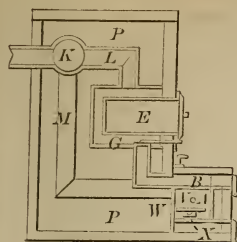


47696—L. R. Blake—*Boot and Shoe.*

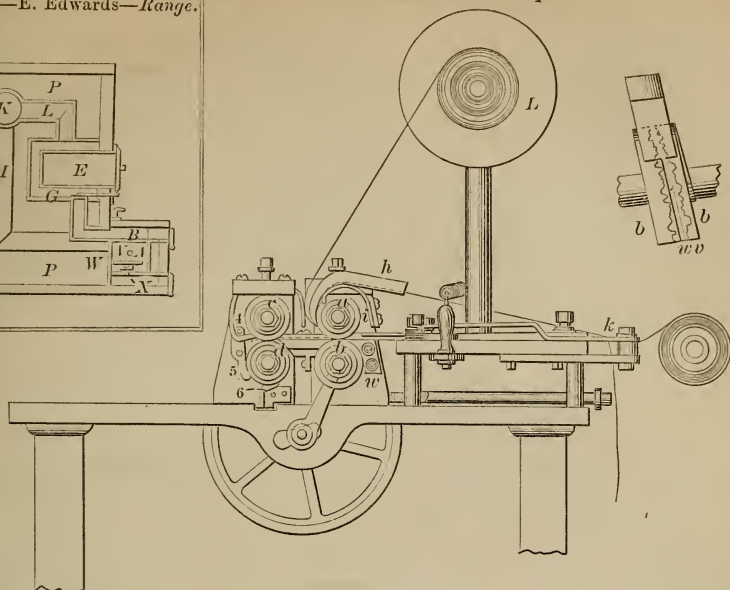


47698—E. Bucklin, Jr.—*Clothes Dryer.*47699—J. Brewer—*Cultivator.*47701—J. Casey—*Heating Petroleum.*47702—S. Copeland—*Fingers for Harvester.*47703—J. Crellin—*Horse Hay Rake.*47700—F. E. Canda—*Railroad Car Brake.*G. W. Doty—*Syphon Bottle.*

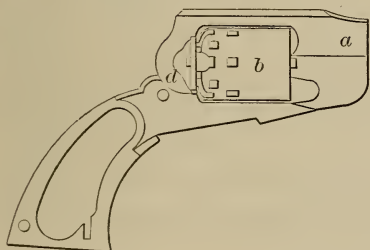
47706—E. Edwards—*Range*.



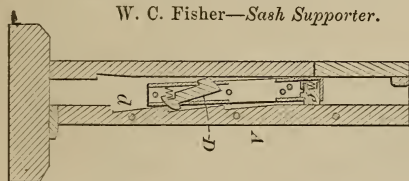
47704—J. F. Doolittle—*Metal Clasp*.



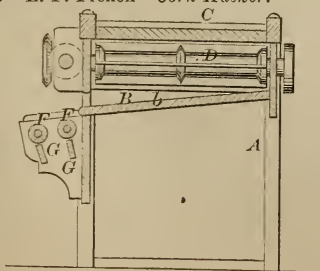
47707—W. H. Elliot—*Revolving Fire Arm*.



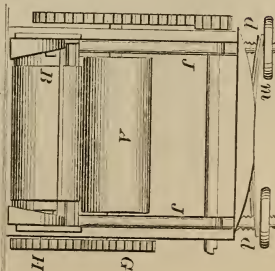
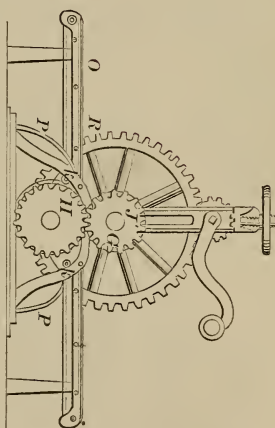
W. C. Fisher—*Sash Supporter*.



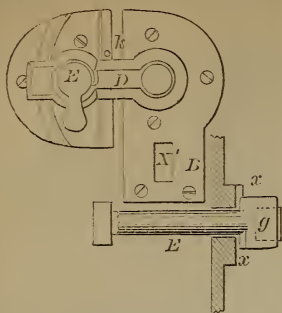
47710—E. F. French—*Corn Husker*.



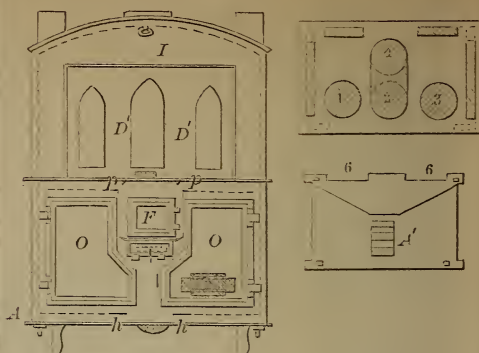
47708—T. Farnsworth—*Wangle*.



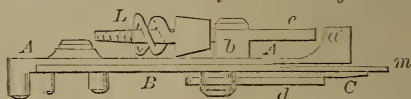
47711—J. Frick—Shutter Fastening.



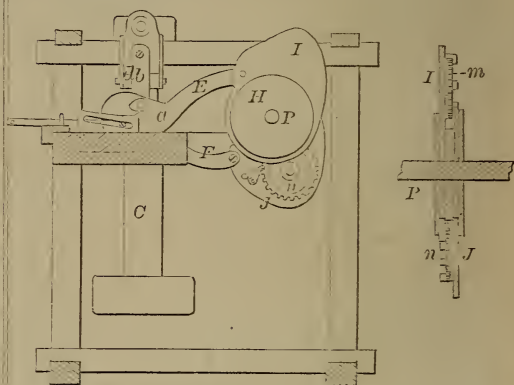
47713—M. Gilmore—Stove.



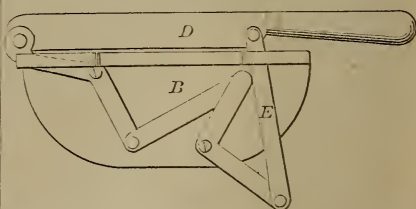
47715—A. Grillet—Tool for Assembling Small Arms.



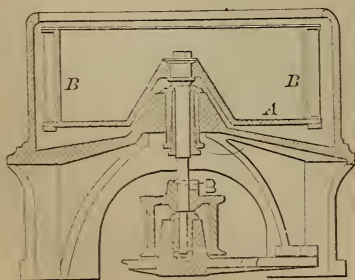
47717—W. H. Hartman—Motive Power.



47716—G. Hall—Bread Slicer.



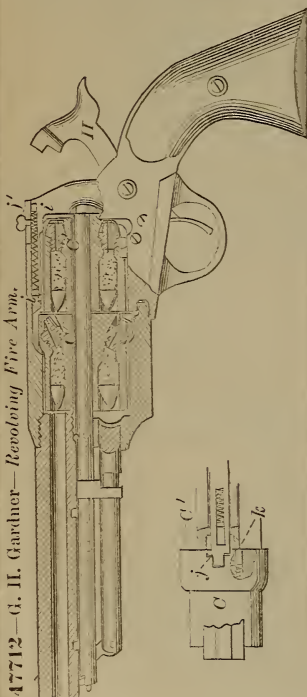
47714—Glass & Bartol—Sugar Draining.

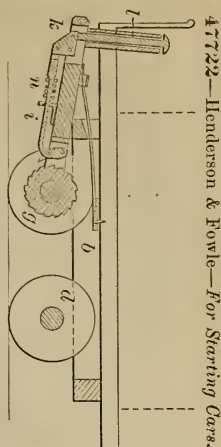


47718—R. Hatriek—Tire Fastener.



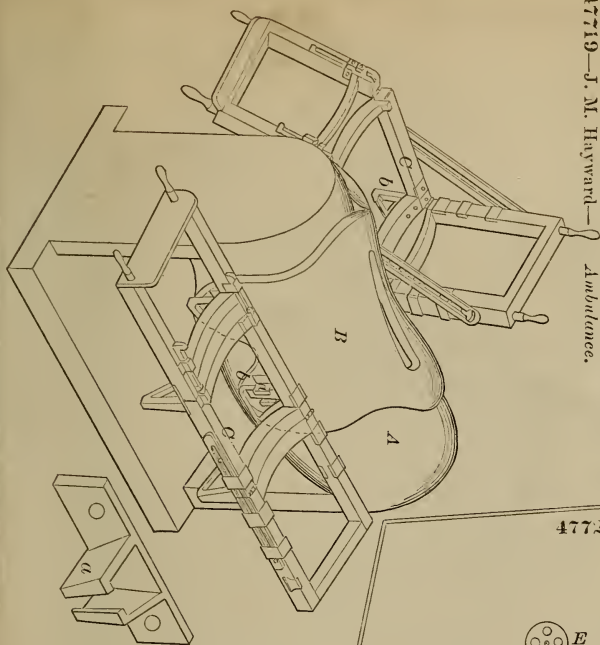
47712—G. H. Gardner—Revolving Fire Arm.



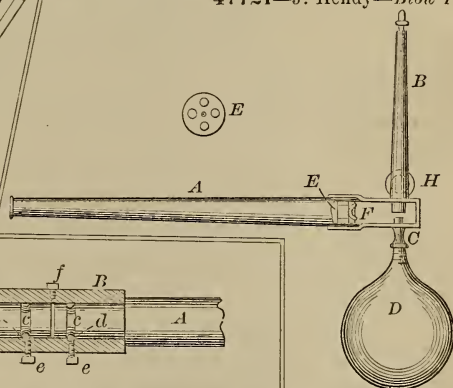


47722—Henderson & Fowle—For Starting Cars.

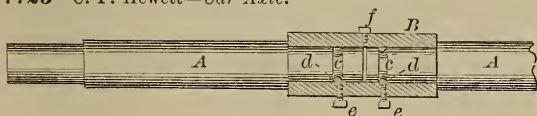
47719—J. M. Hayward—Lambulance.



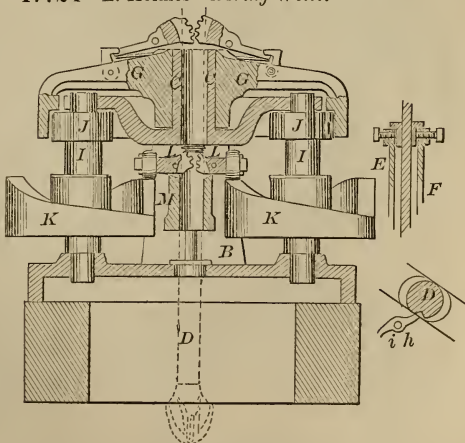
47721—J. Hendy—Blow Pipe.



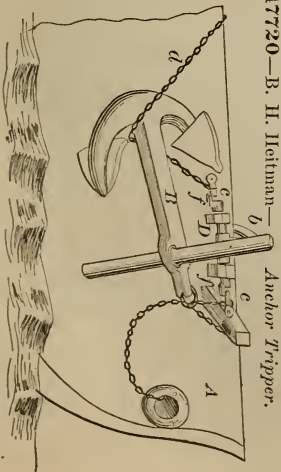
47723—C. P. Hewett—Car Axle.



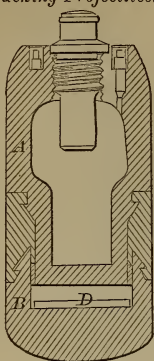
47724—L. Holmes—Boring Wells.



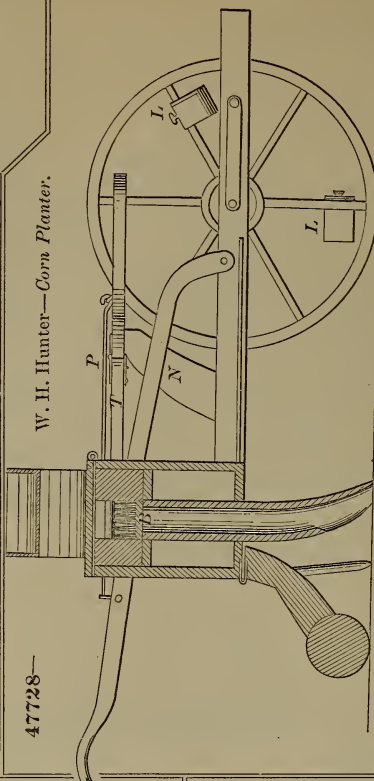
47720—B. H. Heiman—Anchor Tripper.



47725—B. B. Hotchkiss—
Packing Projectiles.

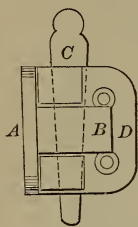


W. H. Hunter—Corn Planter.

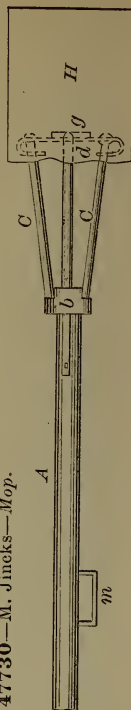


47728—

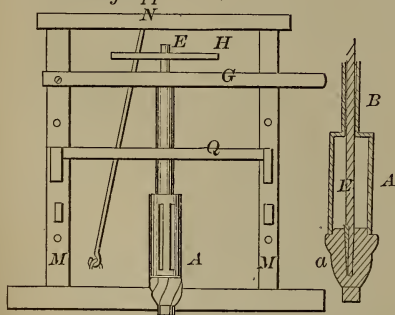
47726—H. M. House—
Joint for Table.



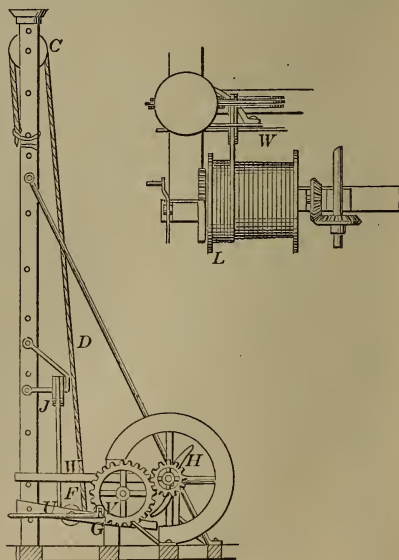
47730—M. Jincks—Mop.



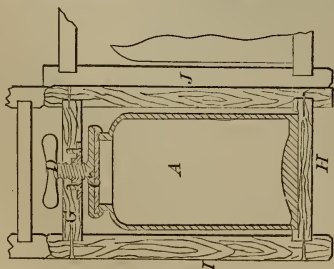
47727—L. R. & W. S. Hunter—
Boring Apparatus.



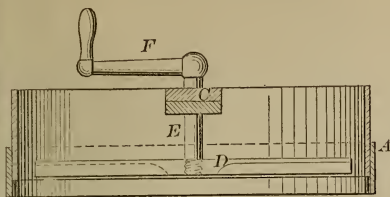
47729—W. Hyde—Boring Wells.



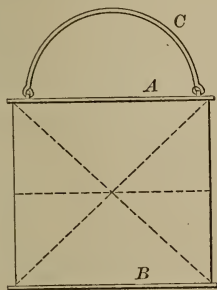
47731—J. Johnson—Fruit Jar.



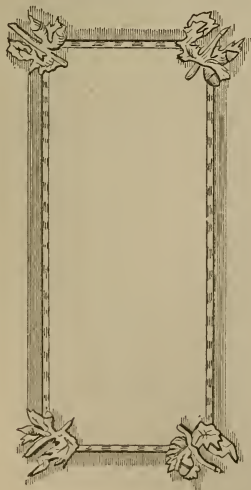
47732—W. J. Johnson—*Flour Sifter.*



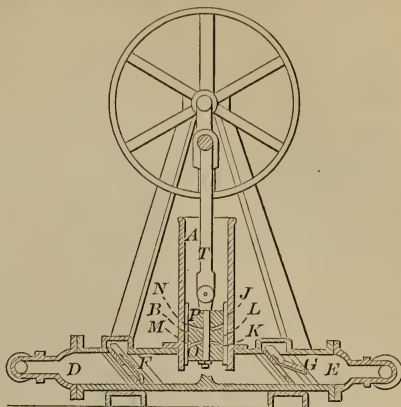
47733—H. L. Kassebaum—
Lantern.



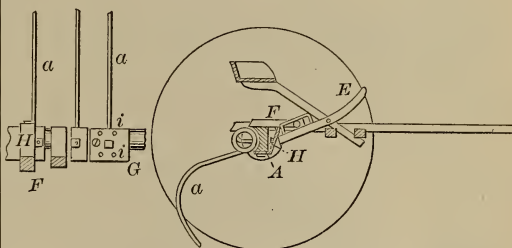
47734—G. L. Keltz—
Window Shade.



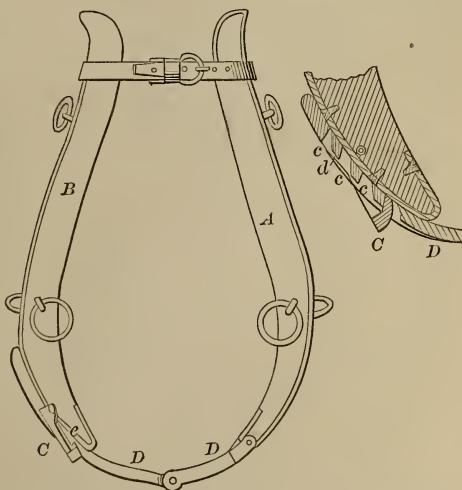
47737—W. B. Le Van—*Pump.*



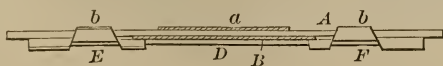
47736—J. Lacy—*Horse Rake.*

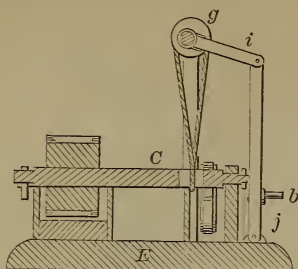
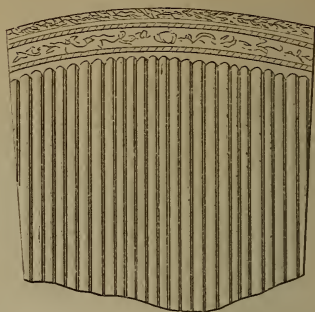
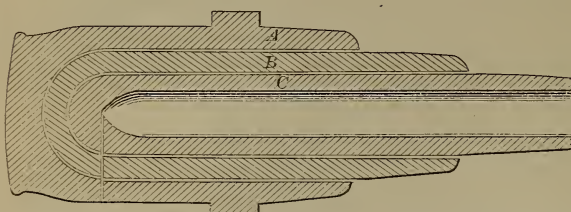
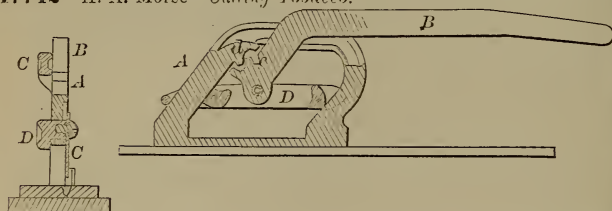
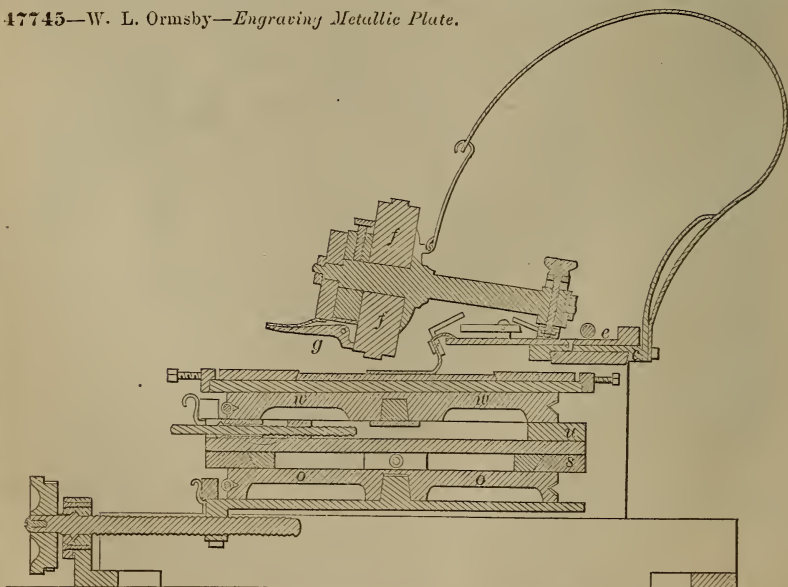


47735—W. W. Kittleman—*Hame Fastening.*

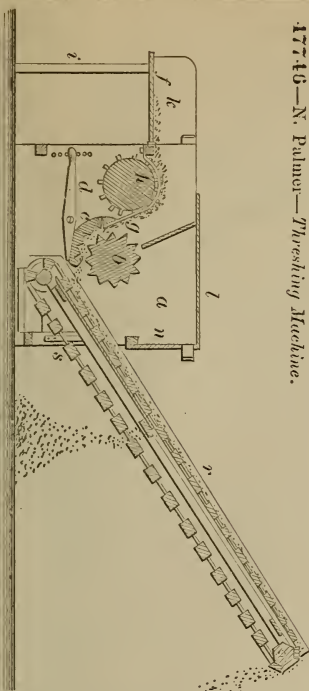


47738—J. Levy—*Hoop Skirt.*

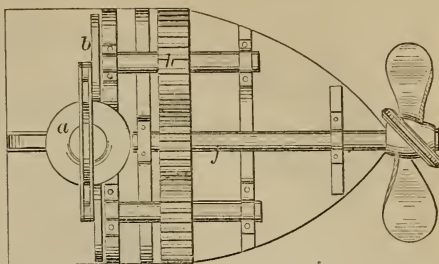


47739—T. Lindsay—*Rag Engine.*47743—A. P. Nash—*Boot Leg.*47740—J. L. Lowry—*Ordnance.*47742—H. A. Morse—*Cutting Tobacco.*47741—G. M. Morris—*Spring Bolt Catch.*47745—W. L. Ormsby—*Engraving Metallic Plate.*

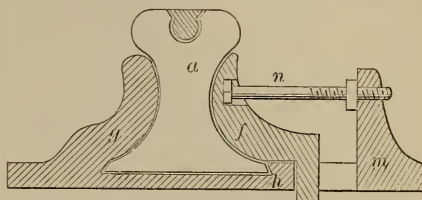
47746—N. Palmer—Threshing Machine.



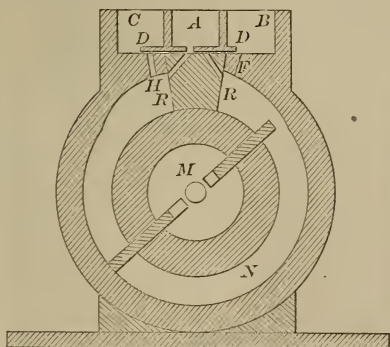
47748—W. S. Phelps—Steam Engine.



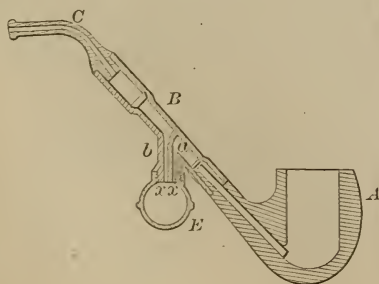
47747—W. H. Peckham—Railway Chair.



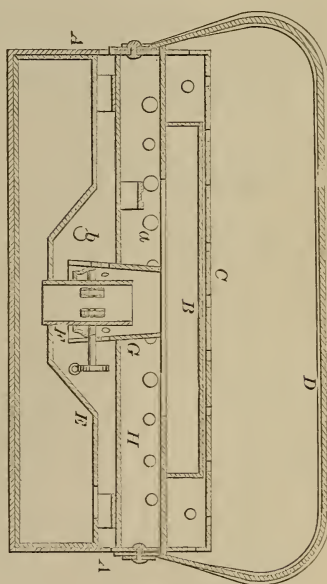
47751—Simonton & Struble—Steam Engine.



47752—W. T. Slocum—Smoking Pipe.

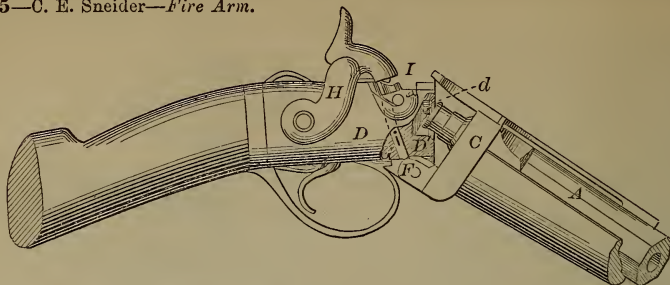
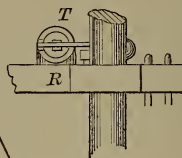
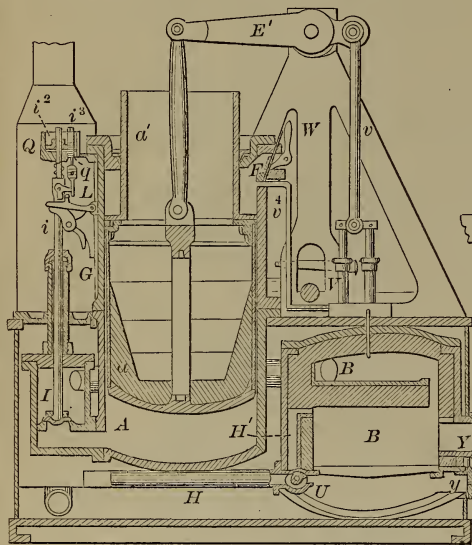
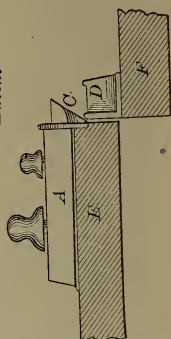
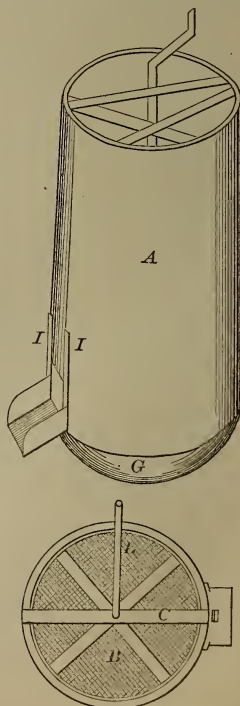
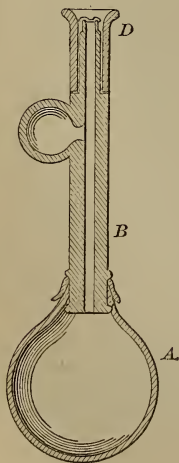
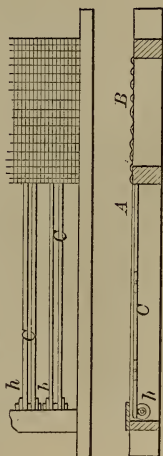


47749—E. H. Reynolds—Foot Stool.

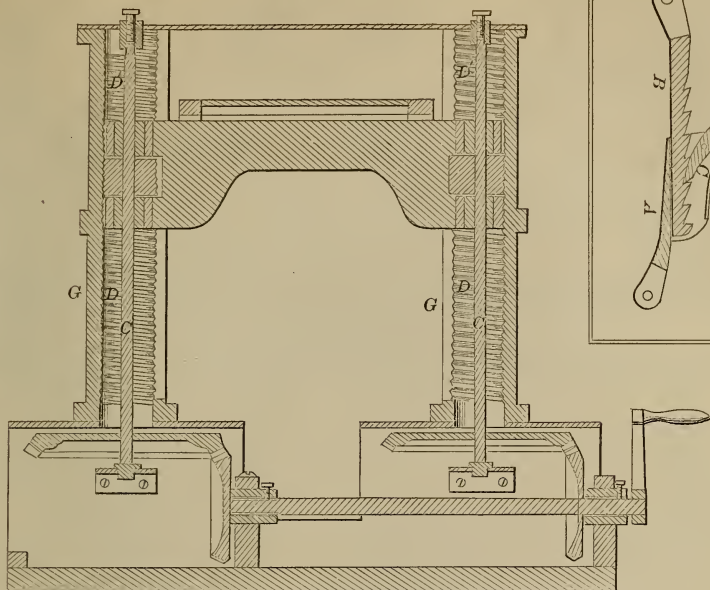


47754—W. H. Smith—Packing Projectiles.



47755—C. E. Snider—*Fire Arm.*47759—S. Wilcox, Jr.—*Hot Air Engine.*47758—E. A. Tuttle—*Latch.*47756—H. Tilden—*Flour Sifter.*47760—C. H. Wilder—*Breast Pump.*47757—C. B. Tucker—*Bed Bottom.*

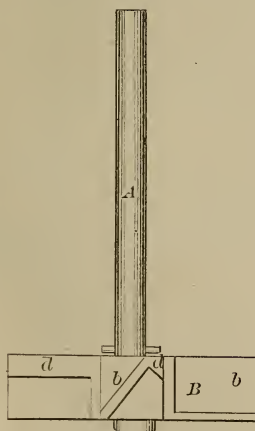
47761—M. Willard—Hoisting Machine.



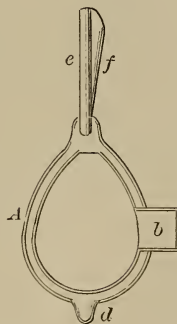
47762—I. B. Woolsey—Hame Fastener.



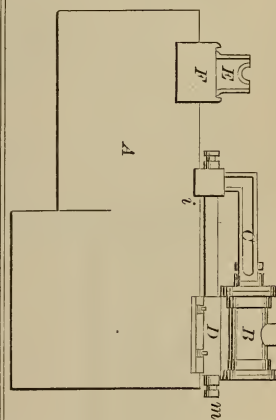
47763—E. M. Wright—
Churn Dasher.



47765—E. Brown—
Thill Holder.



47766—R. H. Davies—Steam Engine.



47764—C. B. Bristol—Snap Hook.

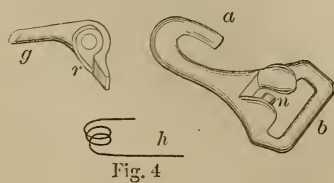
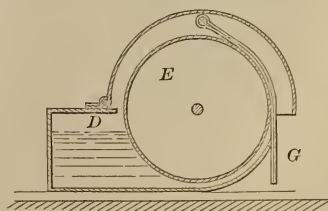
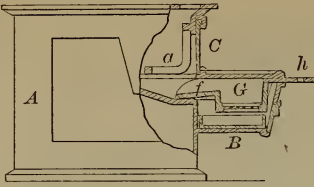


Fig. 4

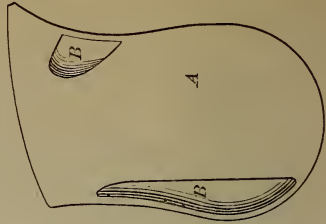
47767—J. Eccles—For Oiling Wool.



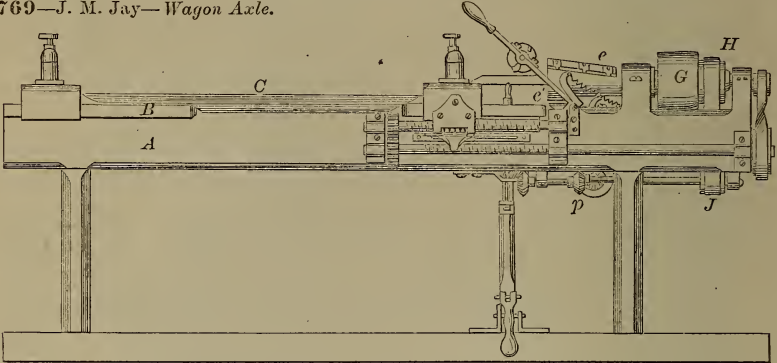
47768—J. Martino—Coal Sifter.



47771—G. H. Meeker—
Riding Saddle.



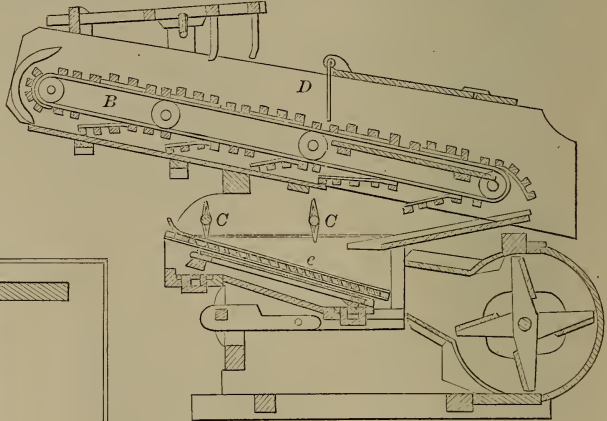
47769—J. M. Jay—Wagon Axle.



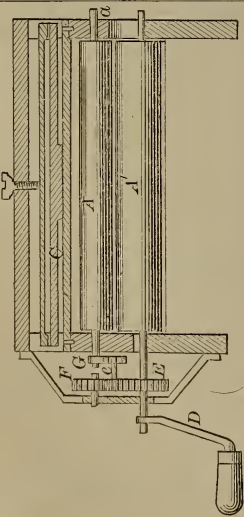
47770—McKay & Blake—
Shoe.



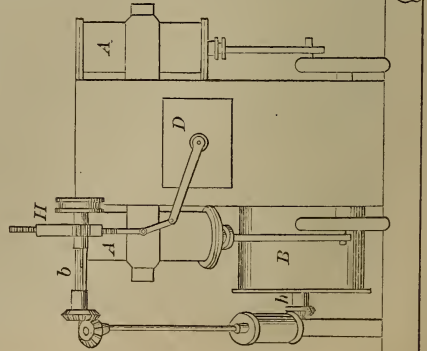
47772—Montgomery & Davis—Grain Separator.



47774—J. N. Pense—Clothes Wringer.



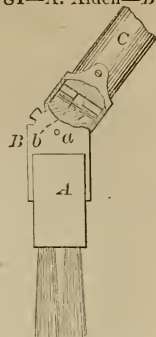
47773—C. R. Otis—Hoisting Apparatus.



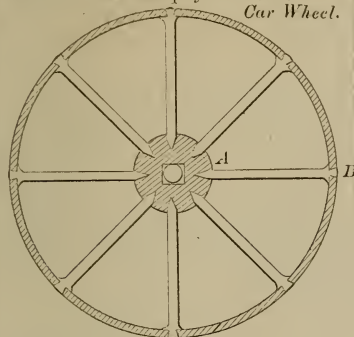
47775—J. H. Vickers—*Fire Arm.*



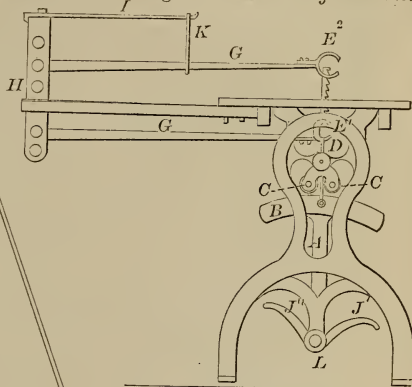
47781—A. Alden—*Brush*.



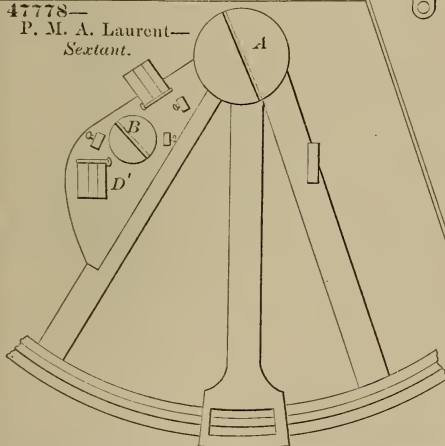
4785—J. D. Murphy—*Railroad Car Wheel.*



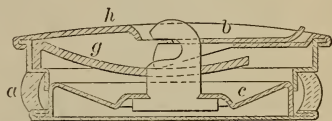
47777—L. Weight—*Scroll Sawing Machine.*



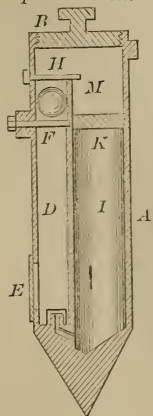
47778—
P. M. A. Laurent—
Sextant.



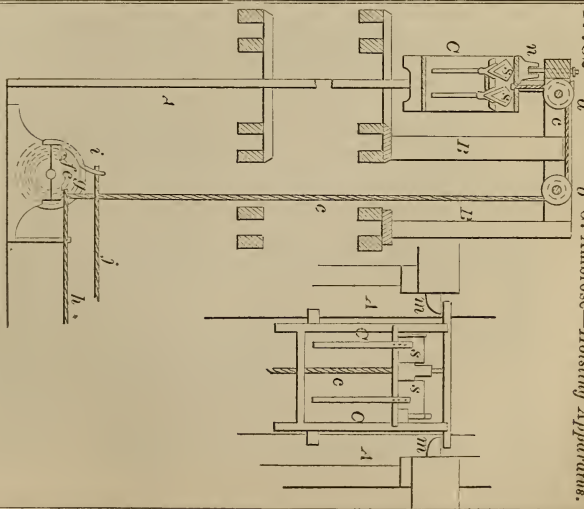
47779—N. Thompson—*Stopper for Jar8.*



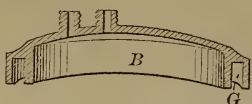
47776—Wood & Lay—
Explosive Shell.



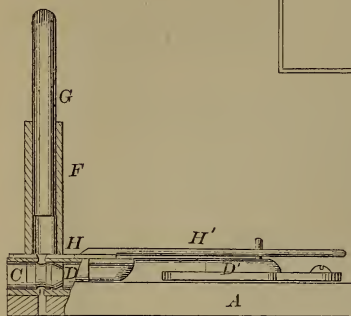
47782—*a* *b* (i. Ambrose—Hoisting Apparatus)



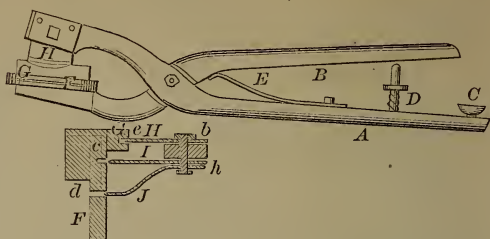
47783—J. H. Ash—*Range Boiler.*



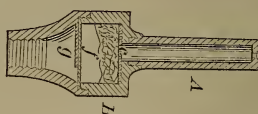
47784—A. Ball—*Lubricating Bullet.*



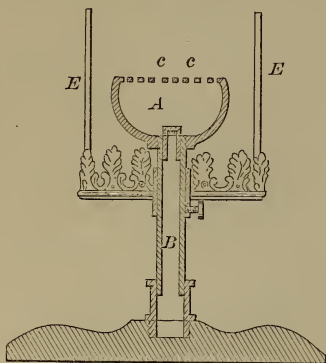
47785—S. D. Baldwin—*Shears.*



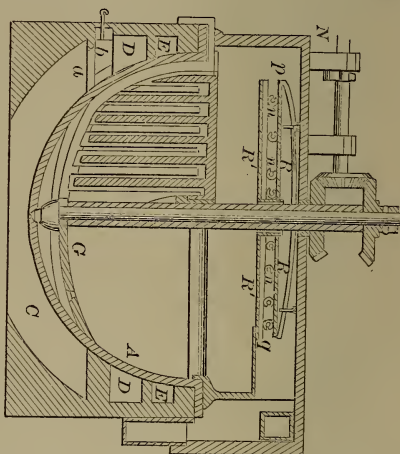
47787—H. Berg—*Gas Burner.*



47786—J. A. Bassett—*Gas Burner.*



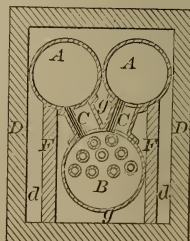
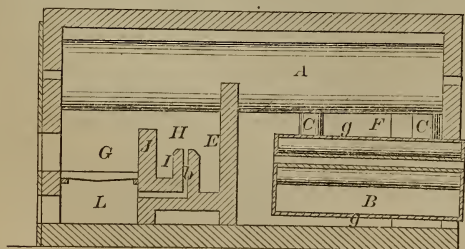
47788—A. Black—*Rendering Pan.*



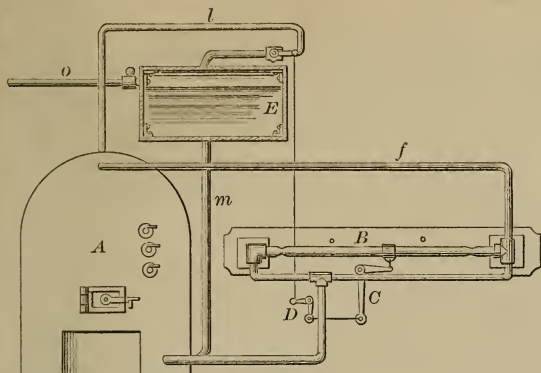
47789—C. D. Blinn—*Bed Bottom.*



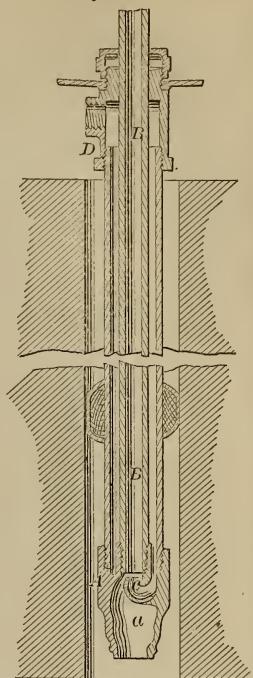
47790—C. T. Boardman—*Steam Boiler.*



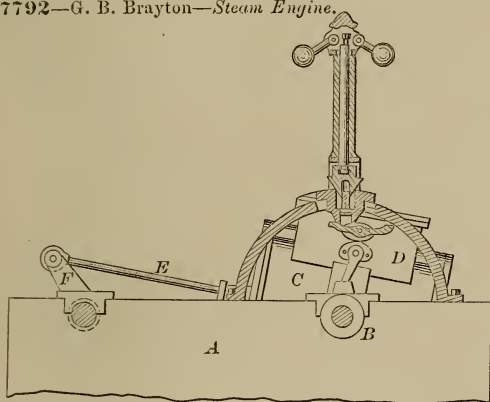
47791—J. N. B. Bond—Boiler Feeder.



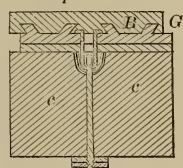
47793—A. Brear—Oil Ejector.



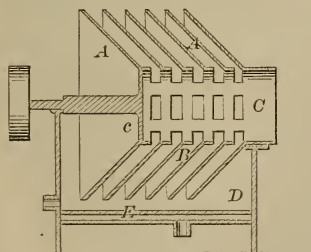
47792—G. B. Brayton—Steam Engine.



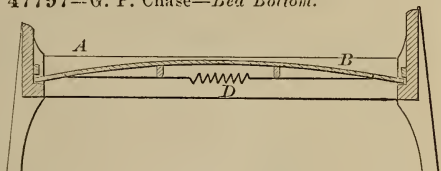
47796—S. D. Carpenter—Ships' Armor.



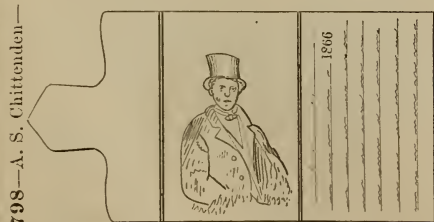
47795—W. Canning—Evaporator.



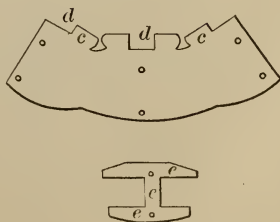
47797—G. P. Chase—Bed Bottom.

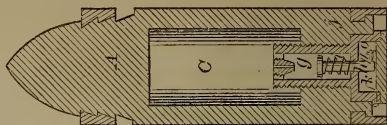
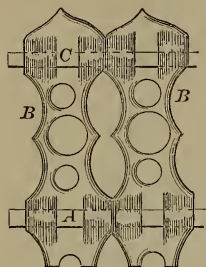
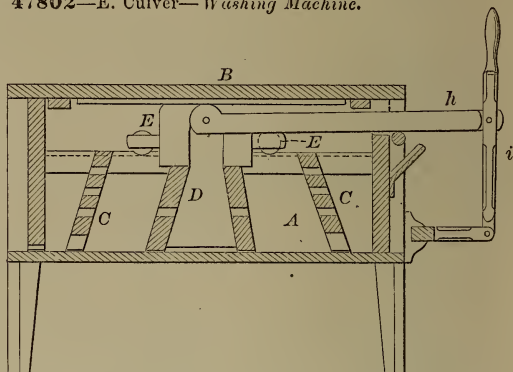
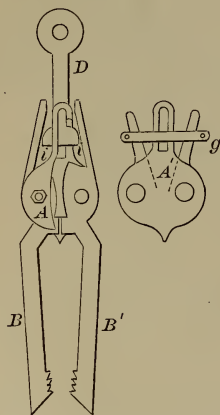
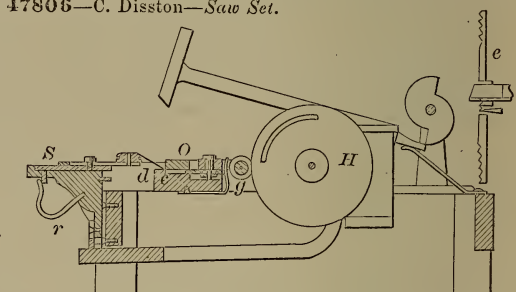
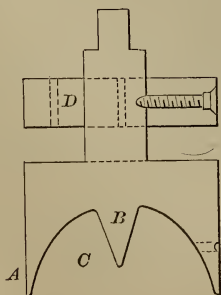
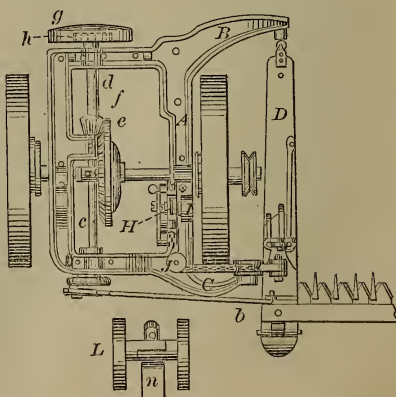


Railroad Ticket.

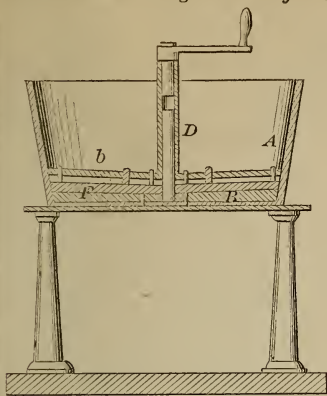


47799—J. M. Clark—Broom.

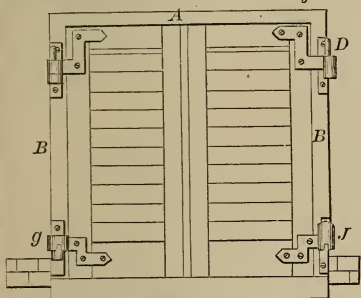


47800—F. F. Cornell, Jr.—*Baling Press.*47803—J. A. Curran—*Percussion Fuze.*47801—S. Crowell—*Iron Fence.*47802—E. Culver—*Washing Machine.*47804—H. H. Daniels—*Well Boring Tools.*47806—C. Disston—*Saw Set.*47805—J. C. Dickey—*Rock Drill.*47807—J. A. Dodge—*Harvester.*

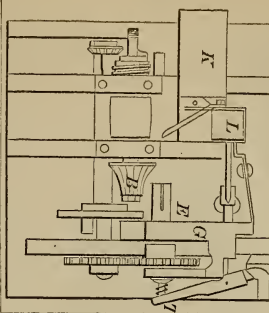
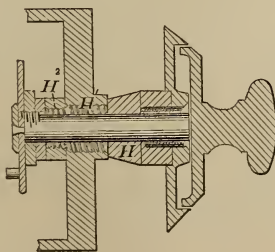
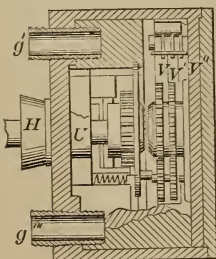
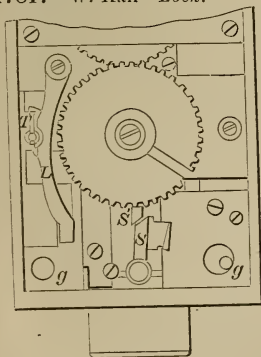
47808—M. B. Dodge—*Treating Ores.*



47816—S. Hall—*Blind Fastening.*



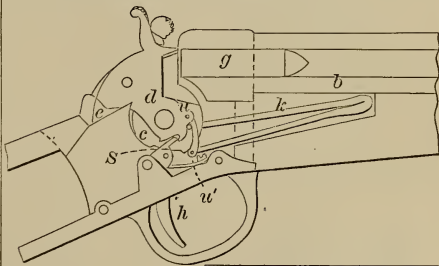
47817—W. Hall—*Lock.*



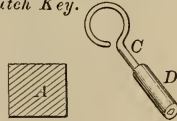
47812—Grier & Boyd—
Drill Bit.



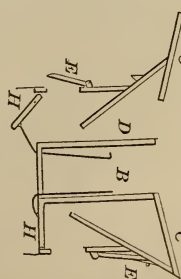
47809—W. H. Elliot—*Fire Arm.*



47811—G. H. Fuller—
Watch Key.

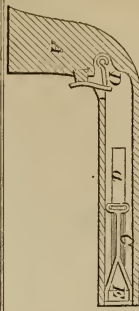


47813-B. Griffin—*Sheep Rack.*

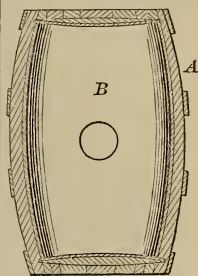


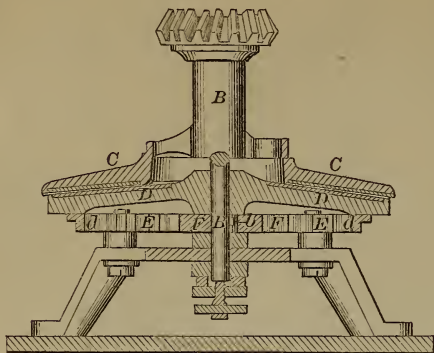
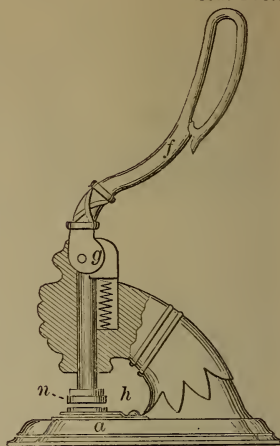
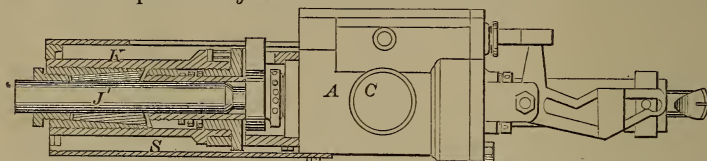
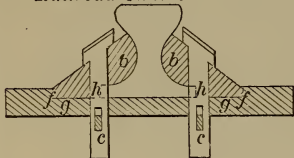
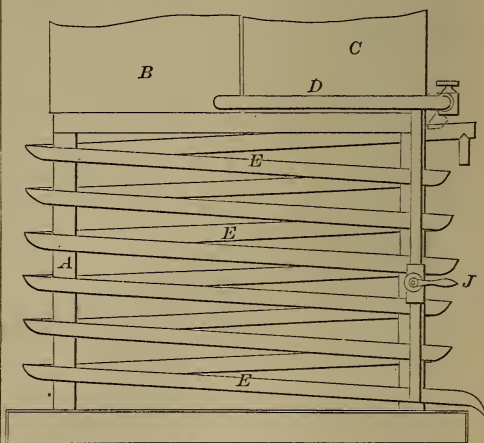
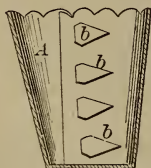
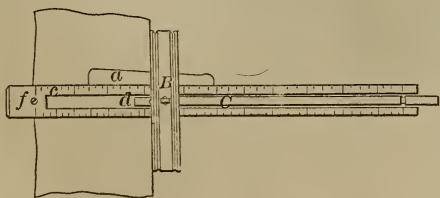
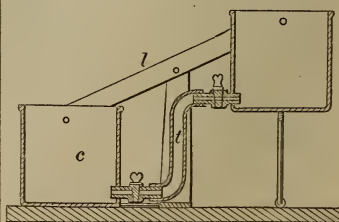
17815-A. Hall—*Jog Spring Gun*

17814-M. R. Griswold—*Tobacco Pipe*

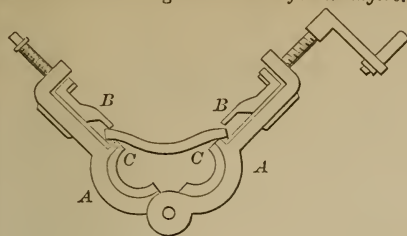


47810—J. Fox—
Lining Barrels.

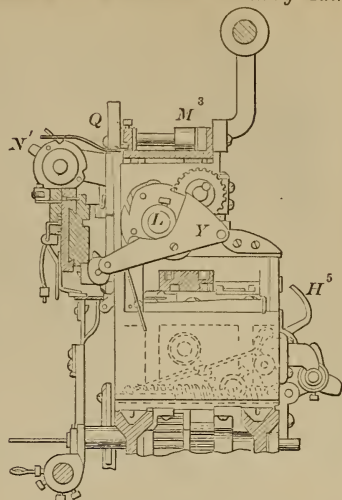


47818—J. H. Hanchett—*Ore Mill.*47821—B. B. Hill—*Seal Press.*47819—H. Haupt—*Drilling Machine.*47820—W. Hendershott—*Railroad Chair.*47823—J. Hoefler—*For Cooling Beer.*47822—Hoard & Miles—*Fruit Basket.*47824—M. Horton—*Carpenters' Gauge.*47826—G. W. Hubbell—*For Japanning.*

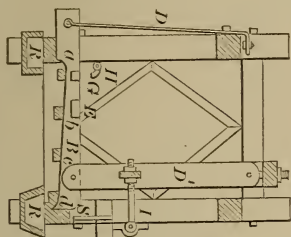
47827—R. B. Hugunin—*Roller for Wringers.*



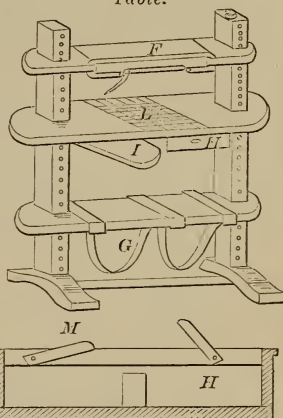
47829—E. E. Kilbourn—*Knitting Machine.*



47828—A. Hunter—*Treading Ores.*

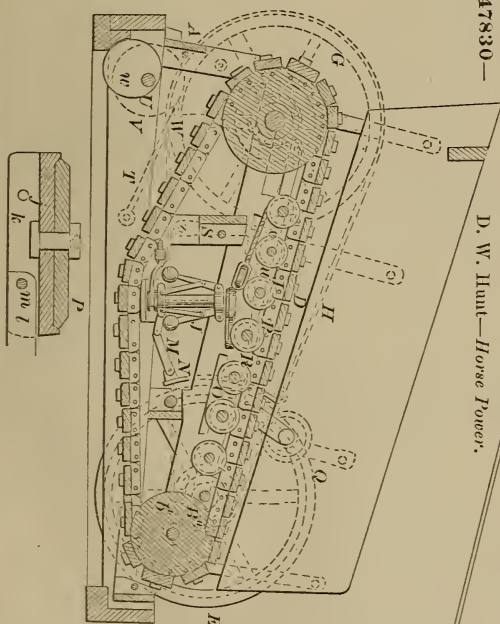


47831—S. J. A. Hassey—*Hospital Table.*

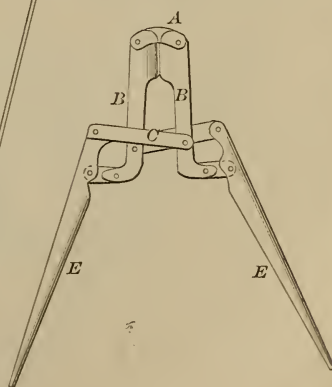


47830—

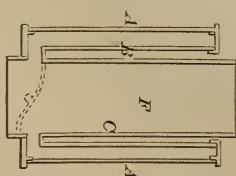
D. W. Hunt—*Horse Tower.*

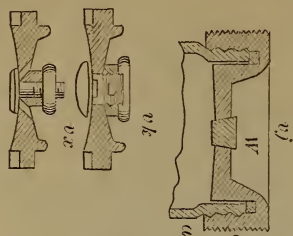


47832—G. W. Hyatt—*Shears.*



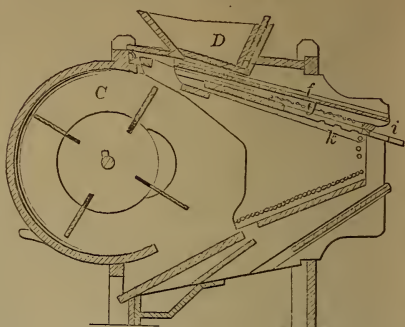
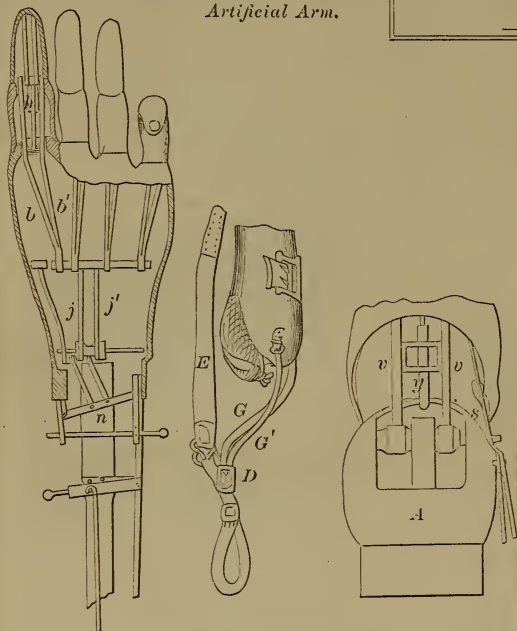
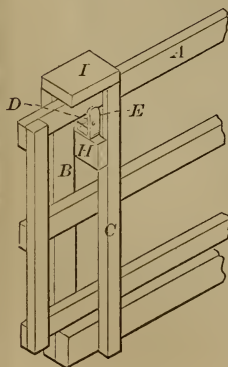
47833—J. B. Hyzer—*Steel Pipe Drum.*



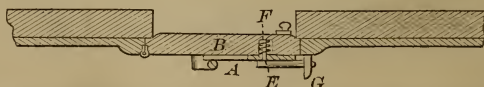


47831—C. G. Imlay—Fruit Jar.

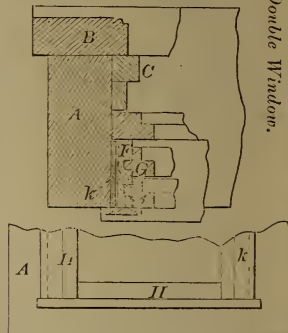
47839.—G. Leach—Fanning Mill.

47835—Kimball & Lawrence—
Artificial Arm.47840—J. Lee—Farm
Gate.47836—Kimball & Mahady—
Shoulder Supporter.

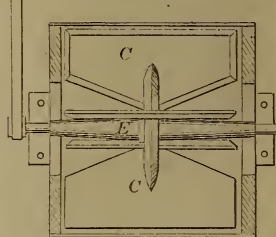
47841—A. J. Loomis—Burglar Alarm.



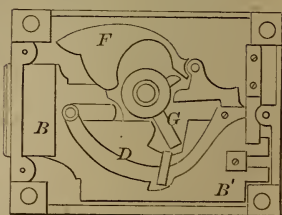
47837—T. S. Lambert—



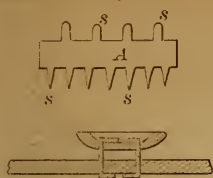
Double Window.

47838—G. Leach—Rotary
Fan.

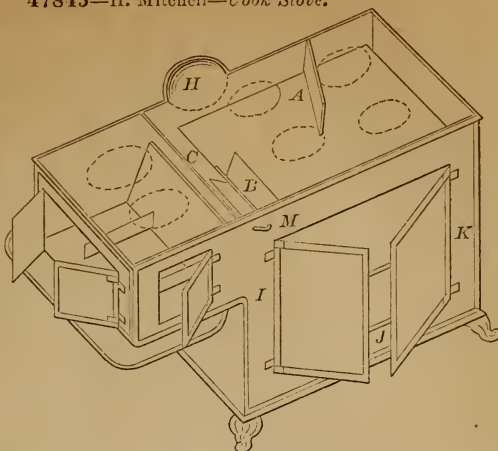
47842—W. K. Marvin—Lock.



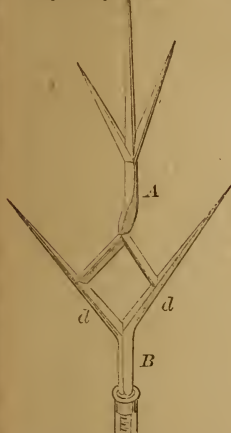
17813—E. Maynard—Button.



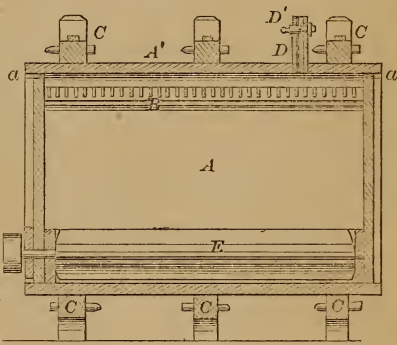
47815—H. Mitchell—Cook Stove.



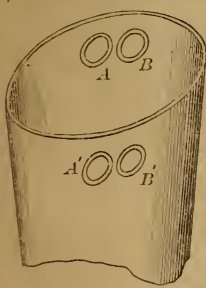
47846—S. J. Mitchell—Lightning Rod.



47844—McNulty & Kern—Tanning.



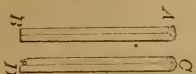
47847—F. H. Moore—For Pulling on Boots.



47850—J. Moulton—Rock Drill.



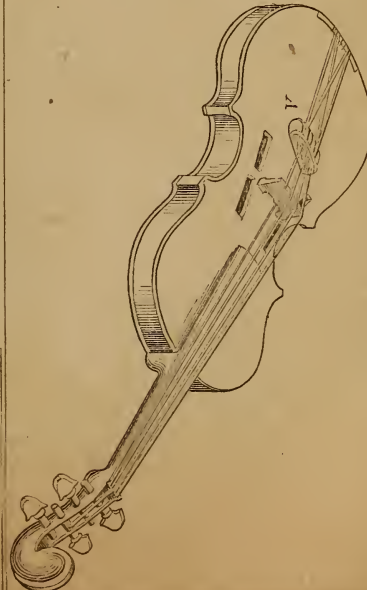
S. C. Moore—Friction Match.

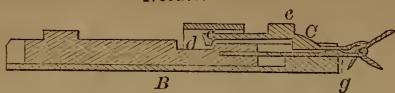
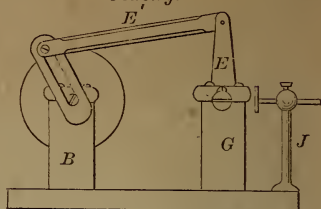
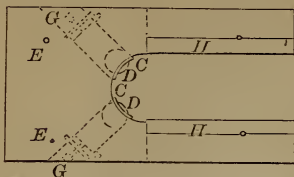
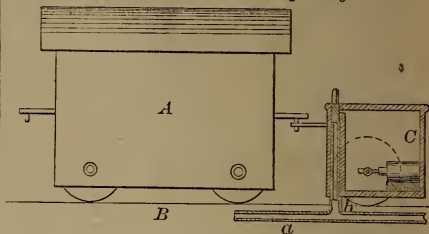
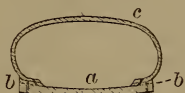
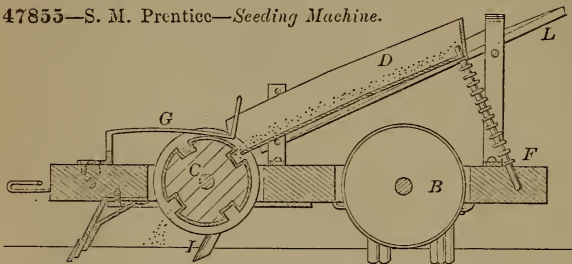
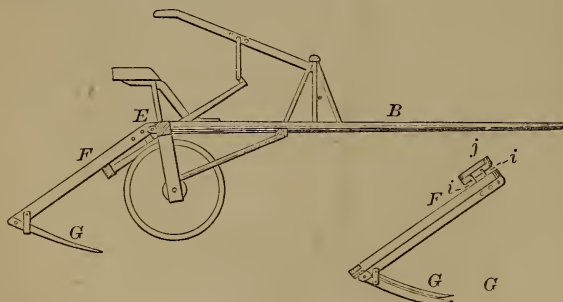
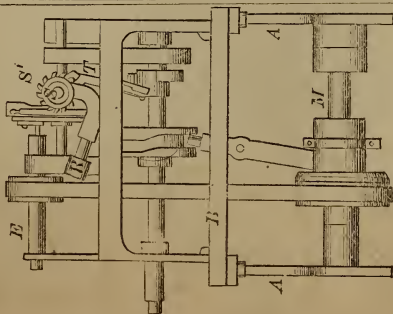


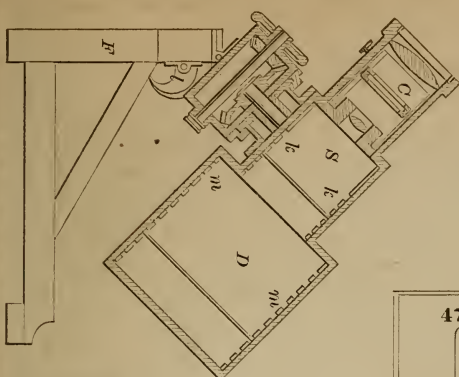
47849—O. Morse—Bed Plate for Engines.



47851—L. F. Munson—Musical Instrument.

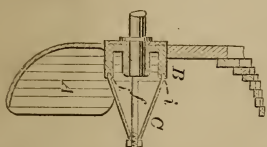
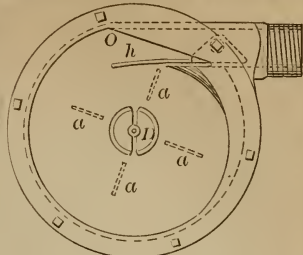


47852—J. L. & S. L. Otis—*Knitting Machine Needle.*47853—O. S. Parmenter—*Ornamenting Jewelry.*47854—F. P. Peregoy—*Shafting.*47858—S. G. Randall—*Propelling Car.*47859—T. K. Reed—*Boot and Shoe.*47855—S. M. Prentice—*Seeding Machine.*47856—C. Preston—*Corset.*47857—O. E. Randall—*Horse Rake.*47860—C. B. Richards—*Optical Instrument.*47861—Robertson & Bidwell—*Making Screws.*



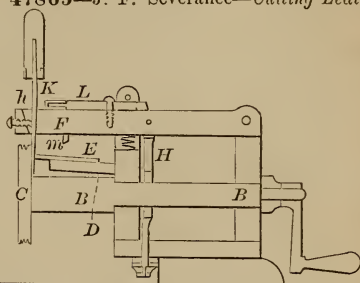
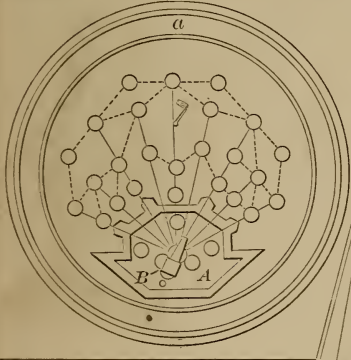
47862—H. Rootger—
Solar Camera.

47866—J. Sheffield—*Water Meter.*



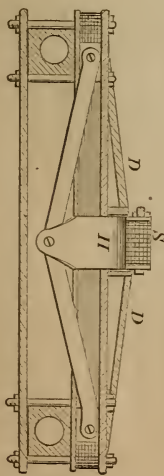
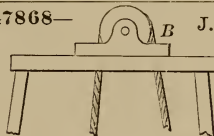
47864—
J. B. Root—
Screw Propeller.

47867—Smith & Nutter—*Game Board.*

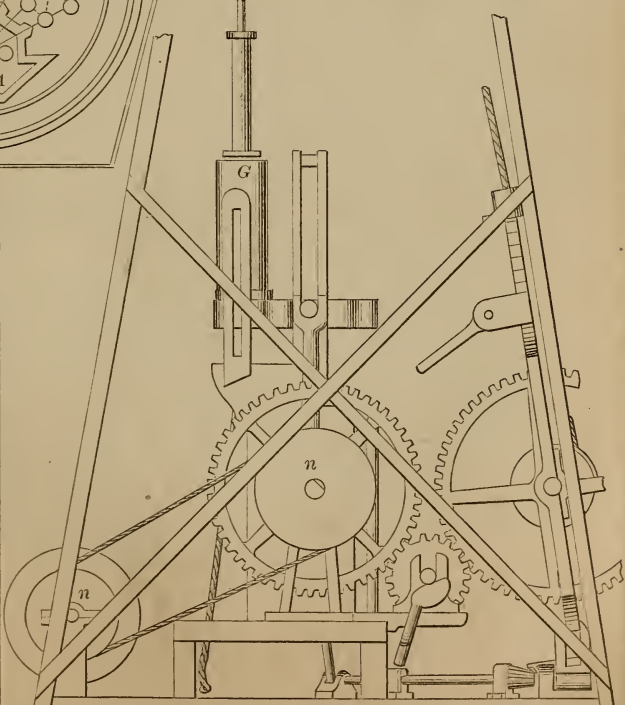


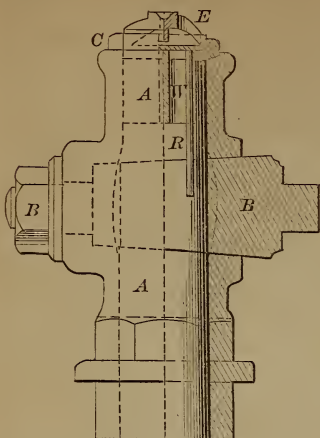
47865—J. F. Severance—*Cutting Leather.*

47868— J. Y. Smith—*Boring Wells.*

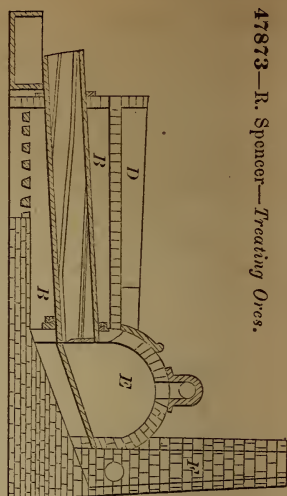
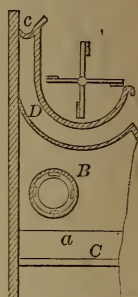
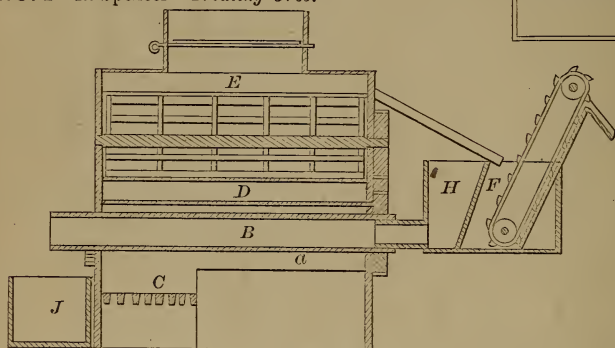
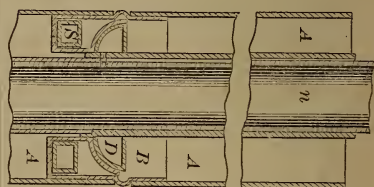
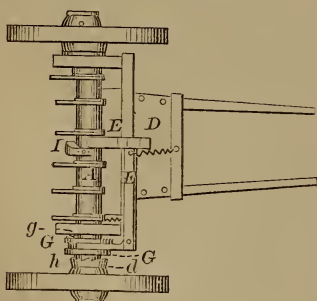
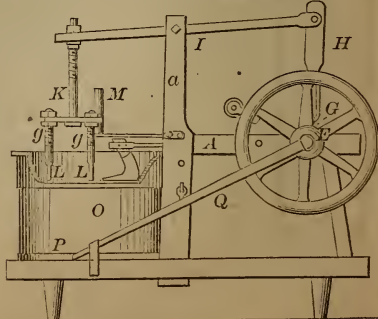


47863—D. B. Rogers—*Car Truck Frame.*

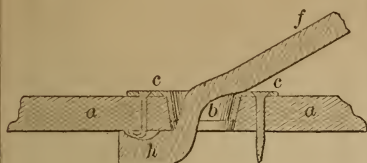


47869—J. Y. Smith—*Safety Valve.*

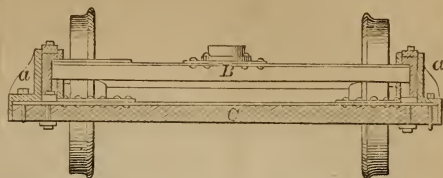
47870—

J. Y. Smith—*Rock Drill.*47873—R. Spencer—*Treating Ores.*47874—R. Spencer—*Treating Ores.*47872—M. Smith—*Horse Rake.*47871—J. Y. Smith—*Oil Ejector.*47875—L. S. Starrett—*Meat Cutter.*47876—J. M. Stone—*Lathe Fastening.*

47877—T. Summerfield—Barrel Bung.

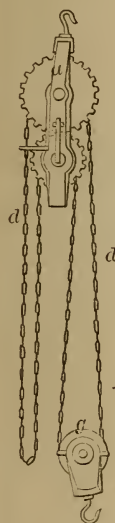


47880—Thurston & Ledyard—Car Truck.

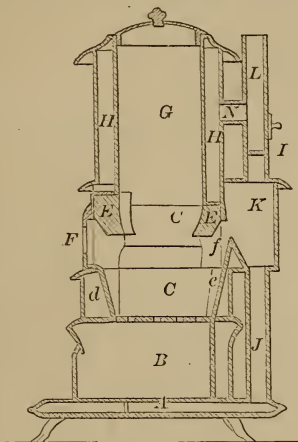


47878—

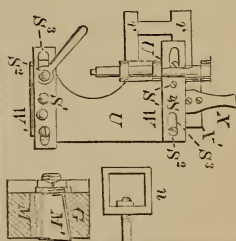
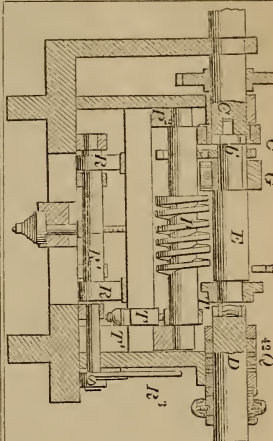
J. A. Talpey—Hoisting Apparatus.



47881—W. B. Treadwell—Stove.



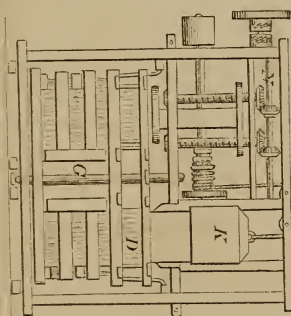
47882—G. L. Turner—Coiling Spring.



47885—A. Westcott—Attaching Cranks.



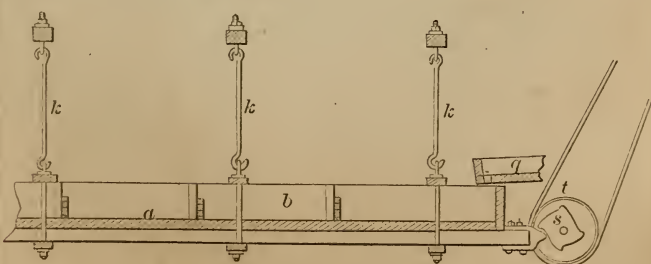
47883—Wakeman & Ballance—Pressing Hay.



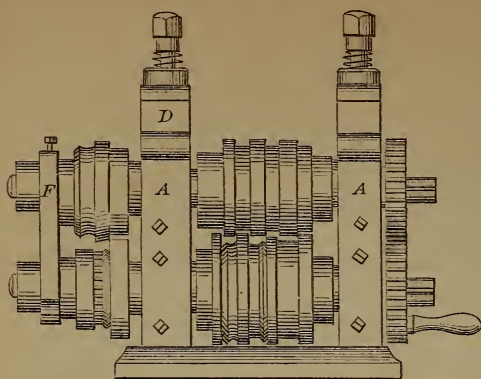
47879—J. B. Tarr—Keel for Ship.



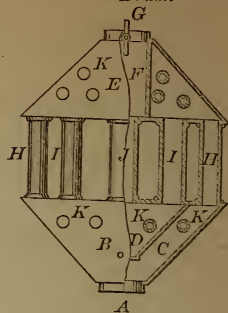
47884—J. Watson—Washing Ores.



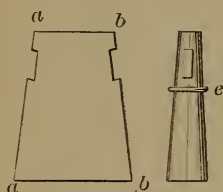
47886—E. Wheeler—Rolling Mill.



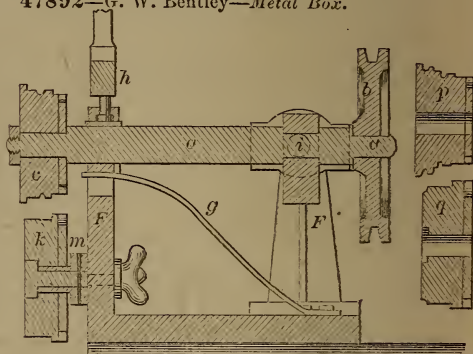
47887—T. Whiston—Store Pipe Drum.



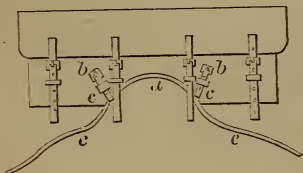
47888—M. G. Wilder—Metal Tube.



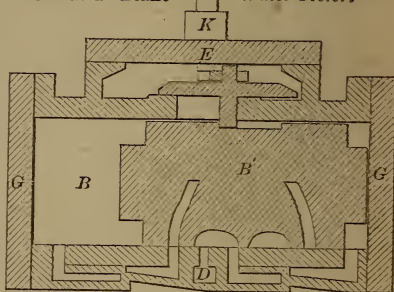
47892—G. W. Bentley—Metal Box.



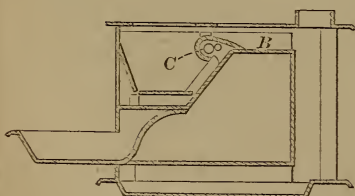
47889—W. H. Wilkinson—Valise.



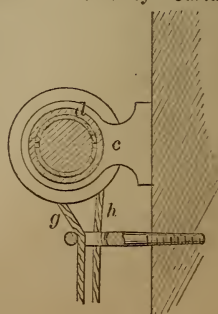
47893—G. F. Blake—Water Meter.



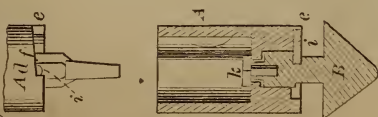
47890—C. J. Woolson—Cooking Stove.



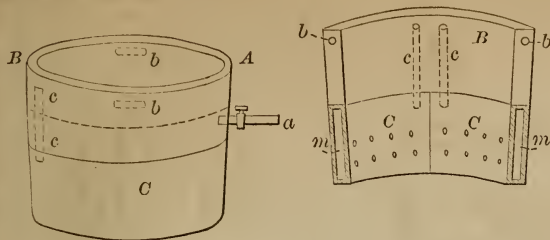
47891—J. B. Bailey—Curtain Fixture.



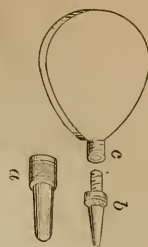
47894—W. M. Bryant—Whiffle Iron.



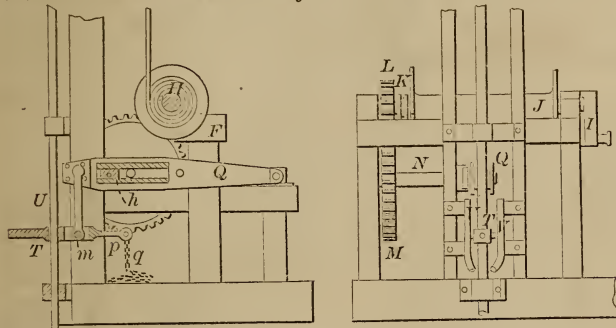
47895—W. Ennis—Stove.



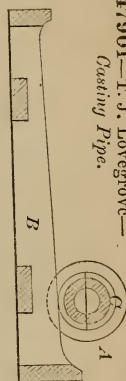
47896—W. H. Hart—Oiler.



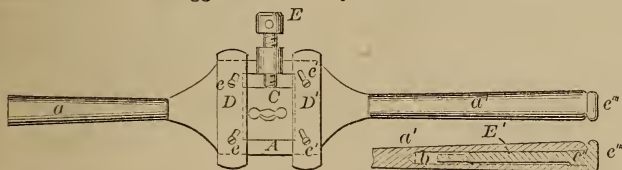
47897—H. Howson—Well Boring.



47901—T. J. Lovegrove—
Casting Pipe.

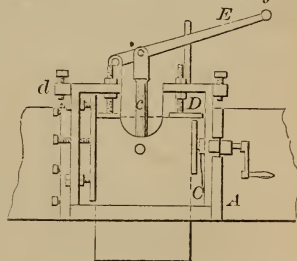
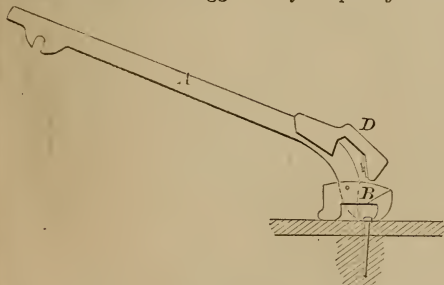


47898—E. C. C. Kellogg—Screw Cutting Die.



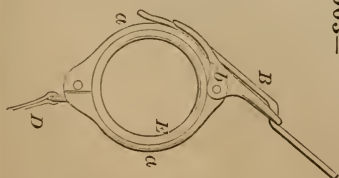
47899—E. C. C. Kellogg—Tool for Opening Boxes

47900—E. H. Lewis—Dressing Stone.

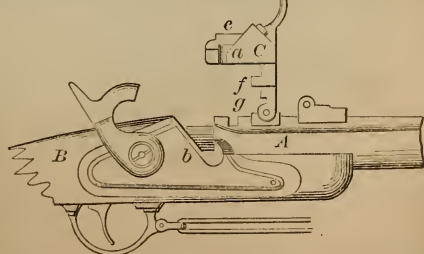


W. H. Noyes—Thill Tag.

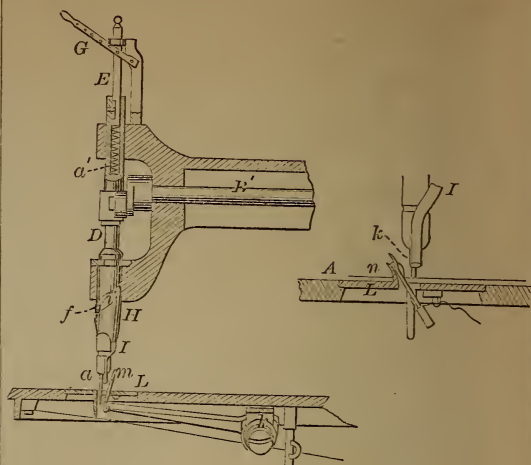
47903—



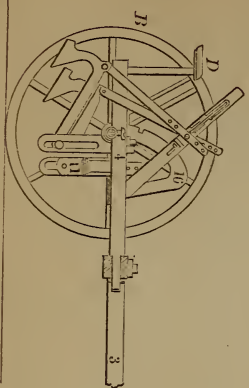
47902—W. H. & G. W. Miller—Fire Arm.



47905—G. Rehfuß—Sewing Machine.



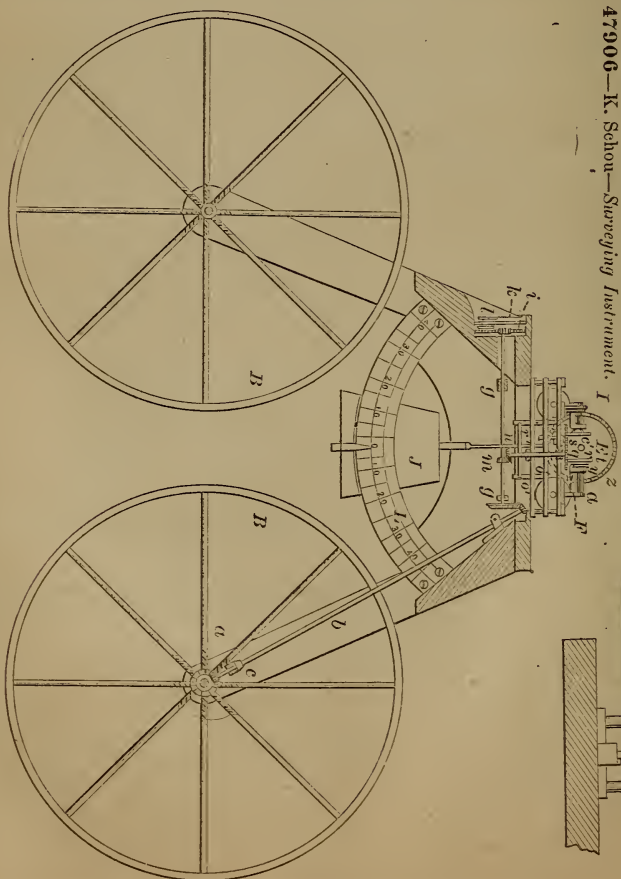
47904—E. Phifer—Cultivator.



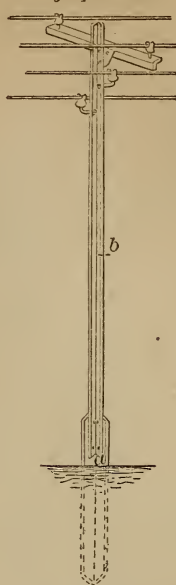
47907—A. A. Wilson—Boring Tool.



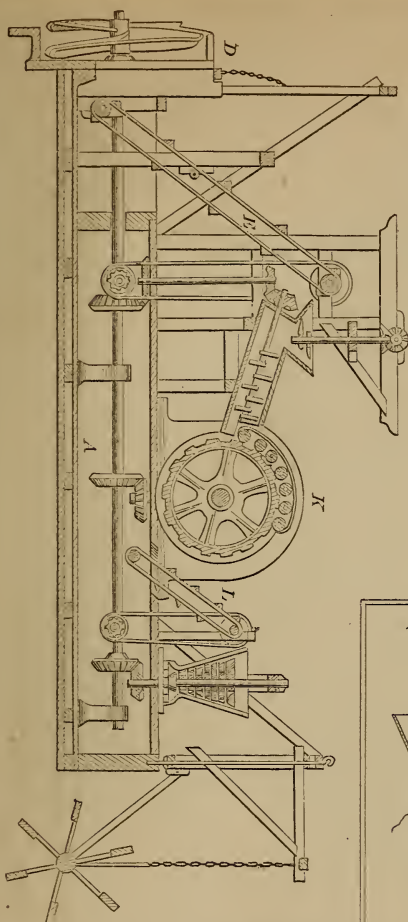
47906—K. Schon—Sweeping Instrument.



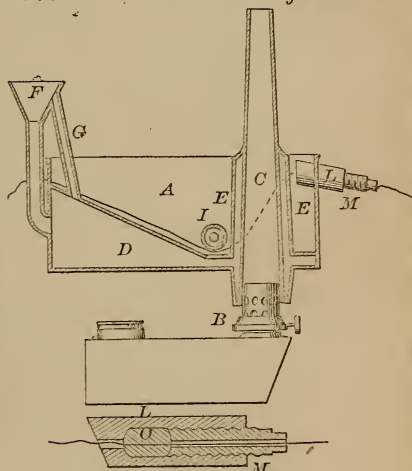
47910—F. W. Shields—
Telegraphic Post.



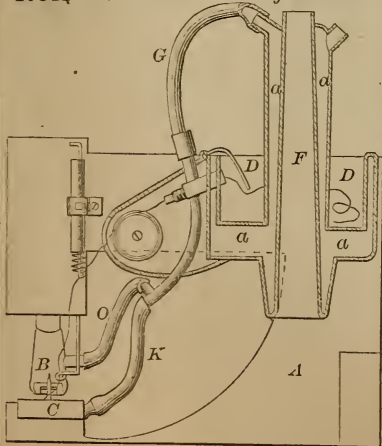
47908—J. Hodges—*Excavator.*



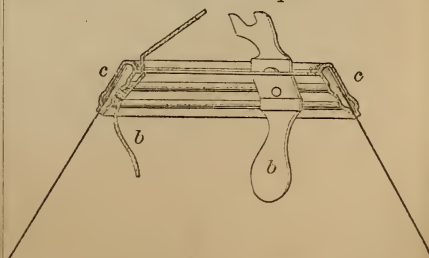
47912—H. P. Aldrich—*Sewing Machine.*



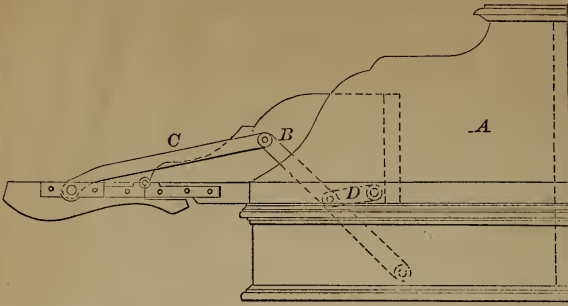
47911—H. P. Aldrich—*Sewing Machine.*



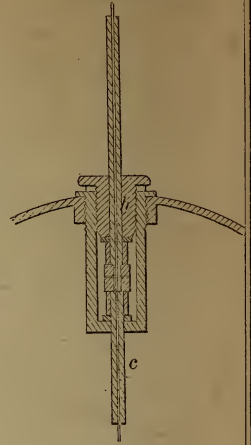
47913—L. J. Atwood—*Lamp Shade.*



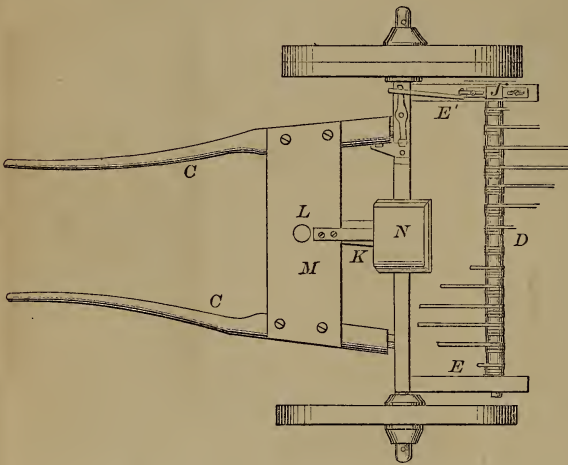
47915—F. Baltz—Desk.



47918—G. W. Beardslee—
Coupling Wire.



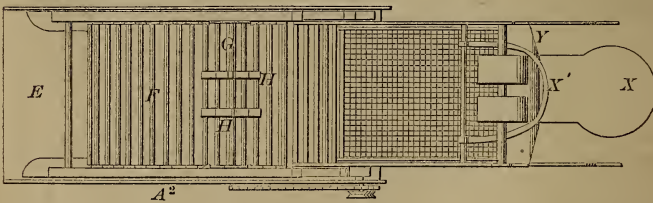
47919—H. Beers—Hay Spreader.



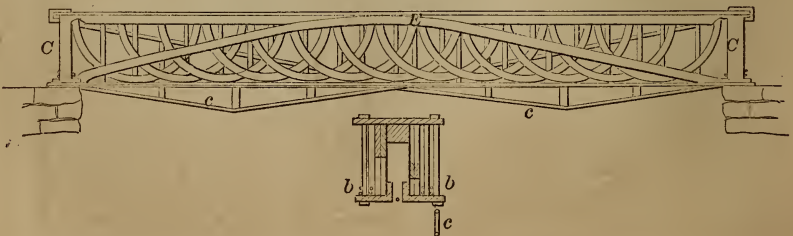
47917—C. Bates—Stencil Plate.



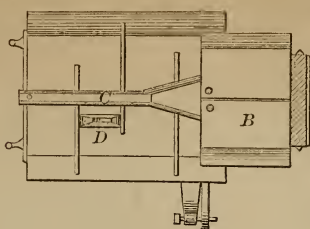
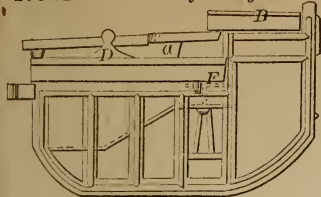
47916—J. W. Bartlett—Potato Digger.



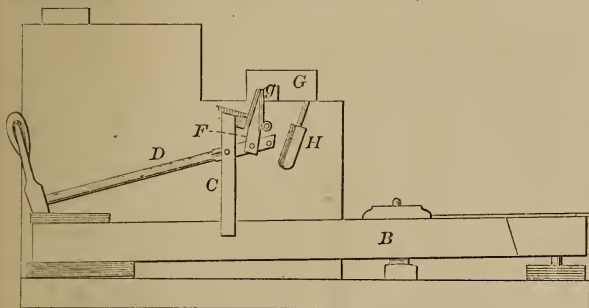
47920—J. Boles, Jr.—Bridge.



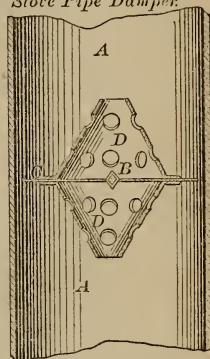
47921—J. Brockway—*Sorghum Evaporator.*



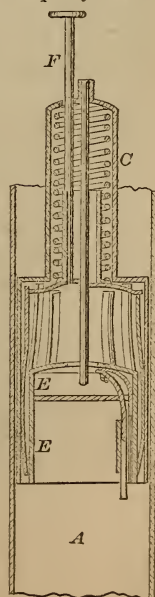
47922—S. P. Brooks—*Piano Forte.*



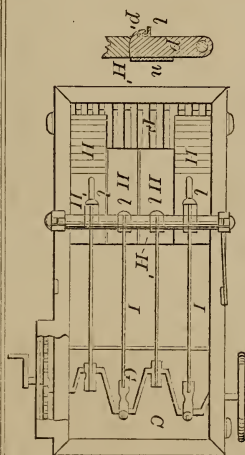
47923—H. C. Brown—*Stove Pipe Damper.*



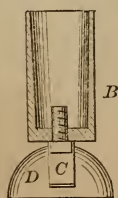
47929—J. R. Carr—*Grapnel for Wells.*



47924—H. Brown—*Washing Machine.*

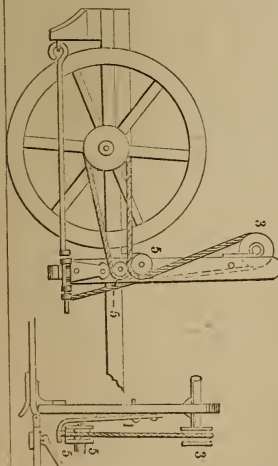


47927—

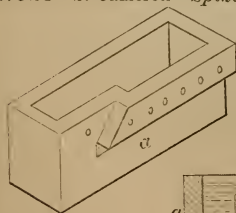


Bartlett & McIntosh—*Whitewash Brush.*

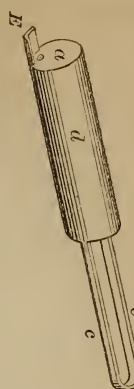
47926—W. H. Barkhart—*Harvester.*



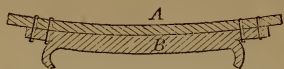
47928—S. Cameron—*Spike Machine.*



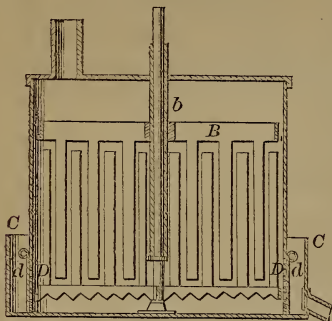
47925—G. C. Bansen—*Blasting Rock.*



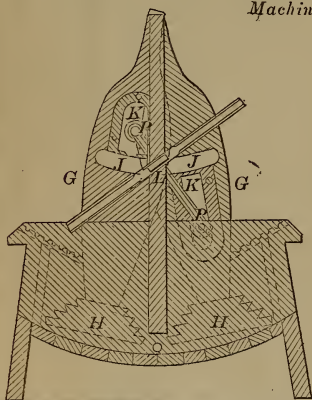
47930—J. Chilcott—*Boot and Shoe Sole.*



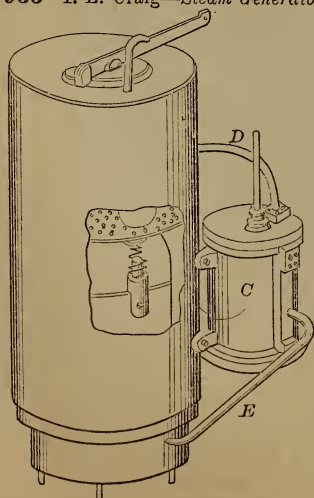
47931—J. Chilcott—*Mask Tun.*



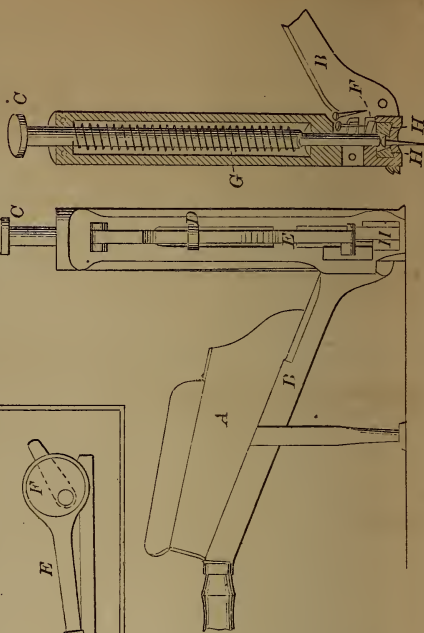
47934—A. Davidson—*Washing Machine.*



47933—I. E. Craig—*Steam Generator.*



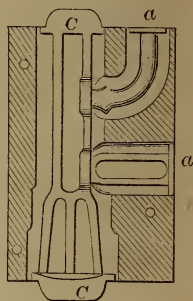
47935—B. C. Davis—*Tack Driver.*



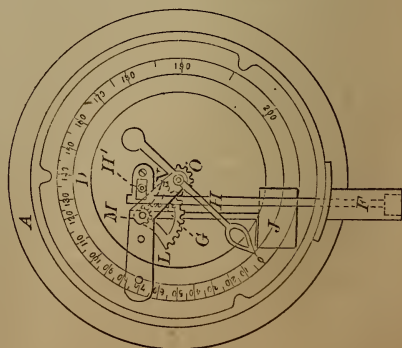
47932—J. B. Cochran—*Slide Valve.*



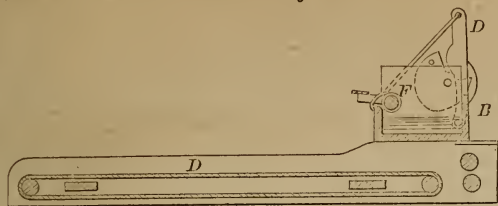
47937—J. P. Davis—*Moulding Core.*



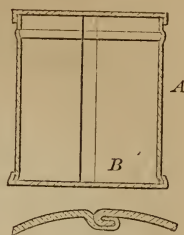
47936—J. Davis—*Steam Gauge.*



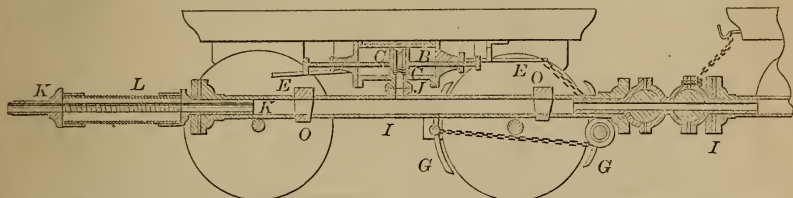
47938—Earl & Holcroft—For Oiling Wool.



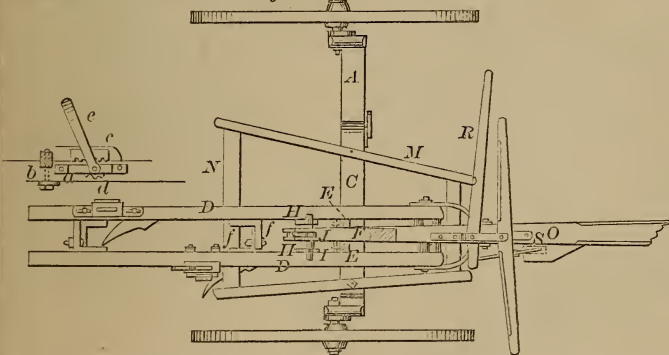
47939—H. Everett—Metal Can.



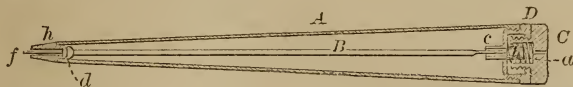
47943—S. N. Goodale—Steam Brake.



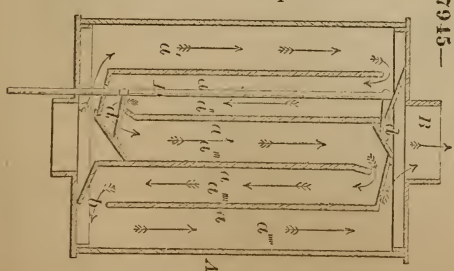
47942—P. M. Gilbert—Gang Plow.



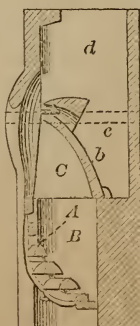
47944—S. S. Gould—Cloth Dotter.



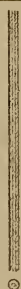
G. D. Greenleaf—Stove Pipe Drum.



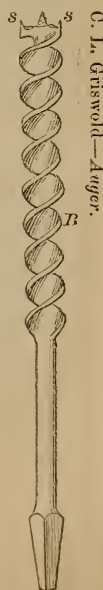
47947—J. Habermehl—Grate.



47940—Farmer & Miliken—Telegraph Wire.

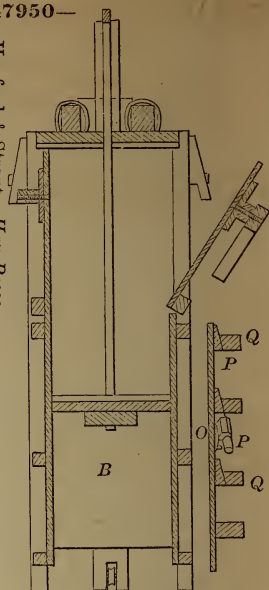
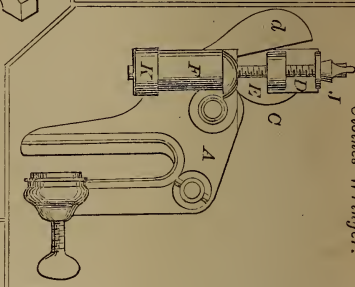
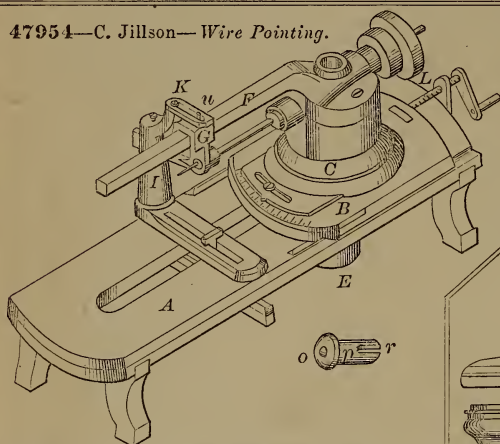
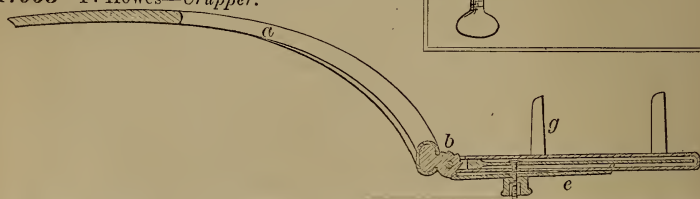
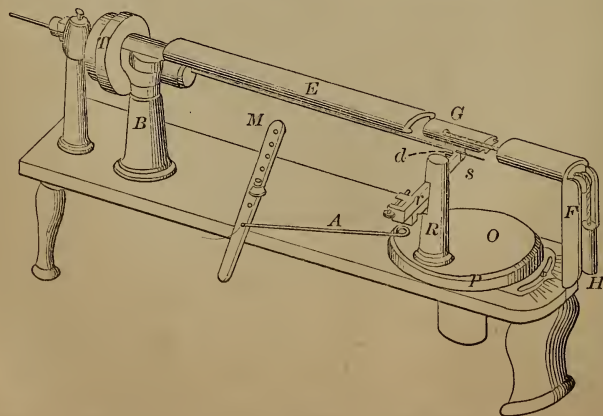
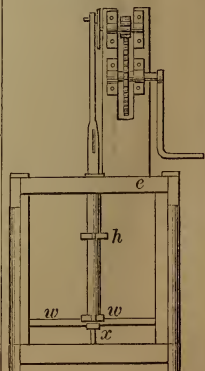


47946—

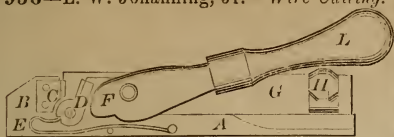


47949—E. E. Hardy—*Harness.*

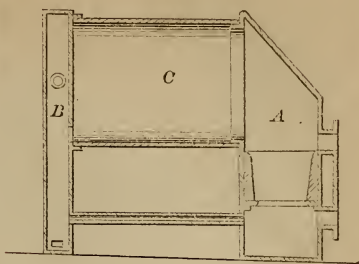
47950—

Hayford & Strout—*Hay Press.*47954—C. Jillson—*Wire Pointing.*47951—S. S. Hemenway—*Clothes Wringer.*47953—F. Howes—*Crupper.*47955—C. Jillson—*Wire Pointing.*47952—W. Hosier—*Churn.*

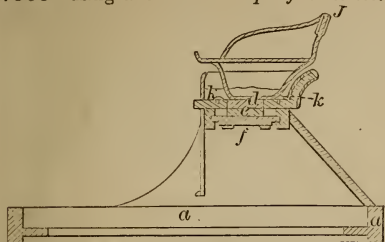
47956—L. W. Johanning, Jr.—*Wire Cutting.*



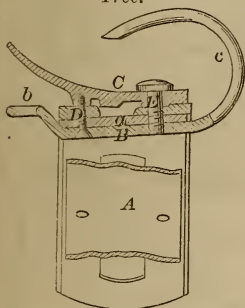
47963—J. Leeds—*Furnace.*



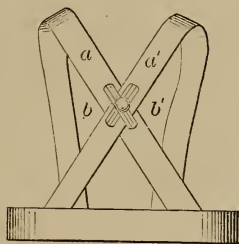
47959—King & Gardner—*Tops of Vehicles.*



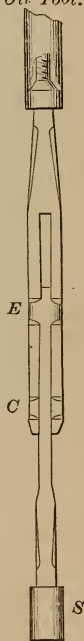
47960—A. Koehler—*Saddle Tree.*



47958—G. D. Kellogg—*Shoulder Strap Slide.*

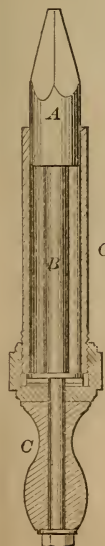


47961—
R. H. Lecky—*Oil Tool.*

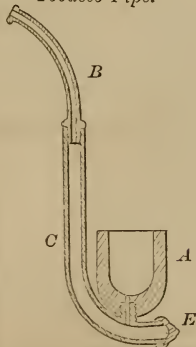


47965—

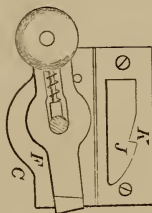
W. K. Lewis—*Soldering Iron.*



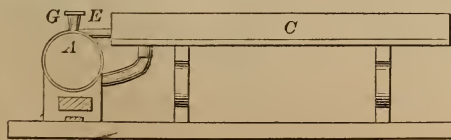
47964—F. Liller—*Tobacco Pipe.*



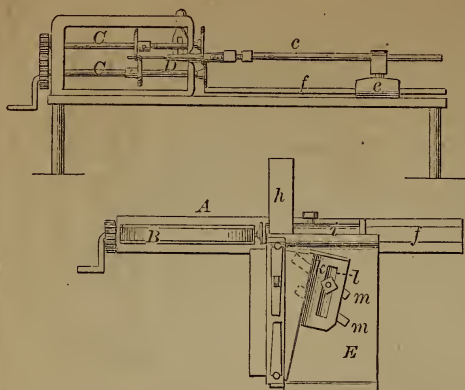
47962—R. Lee—*Sash Fastening.*



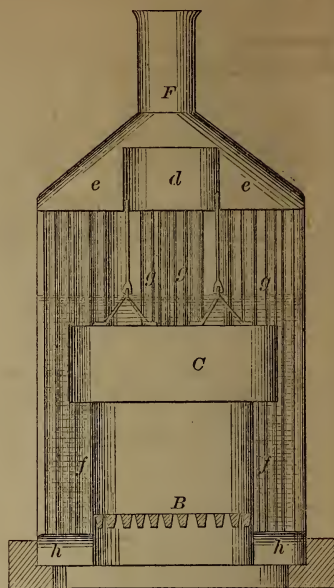
47966—F. A. Lord—*Evaporator.*



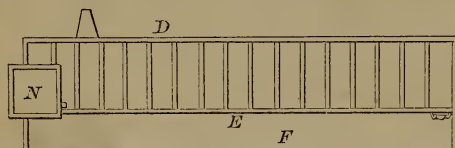
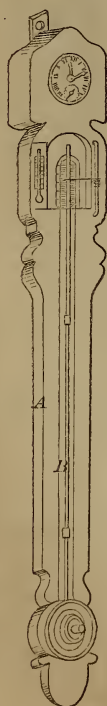
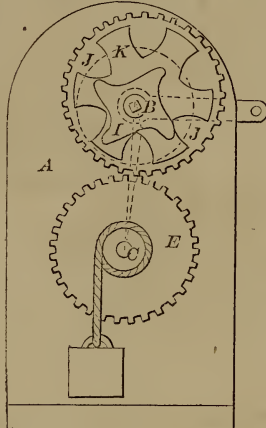
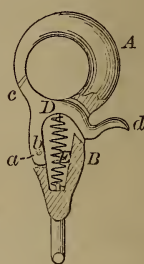
47967—H. Low—Cutting Sheet Metal.



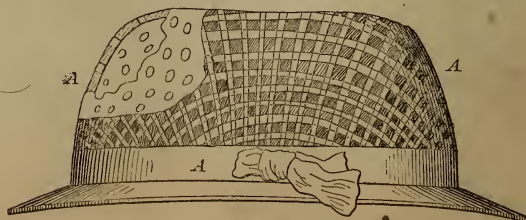
47968—T. Main—Steam Boiler.



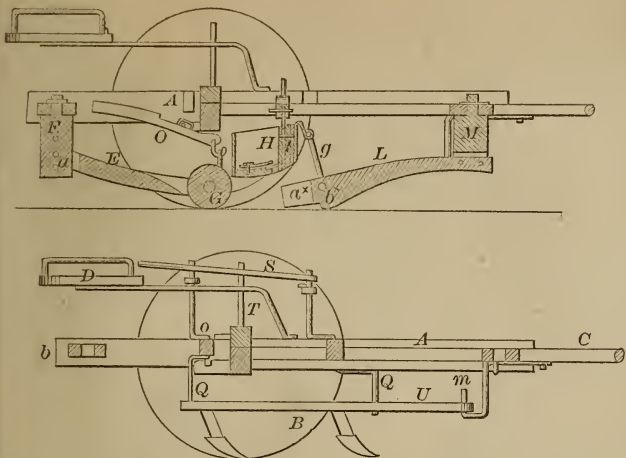
47970—J. H. Merrill—Sorghum Evaporator.

47971—
G. V. Mooney—
Barometer.47969—W. C. McGill—
Hoisting Weights.47972—H. Mund—
Snap Hook.47973—
M. Newman—
Edge Plane.

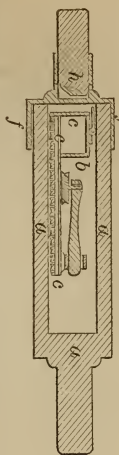
47974—Nickerson & Wallace—Hat.



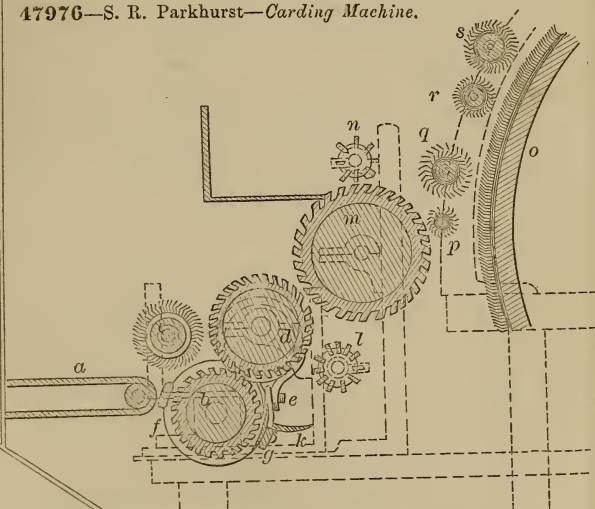
47975—C. Norwood—Cultivator and Seeder.



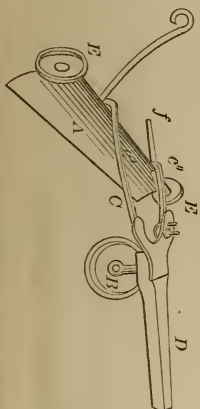
47979—C. E. Phillips—Rolling Pin.



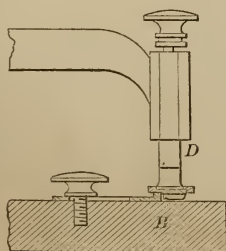
47976—S. R. Parkhurst—Carding Machine.



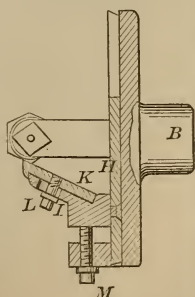
47977—W. Patterson—Road Scraper.



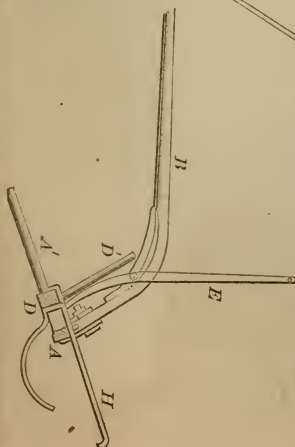
47978—R. E. Patterson—Sewing Machine.

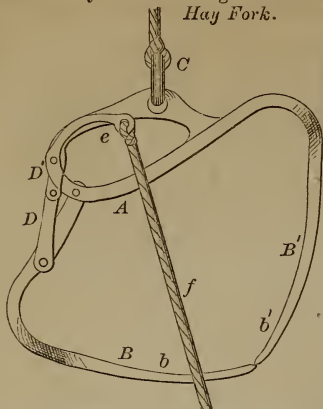
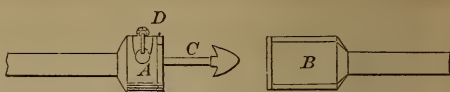
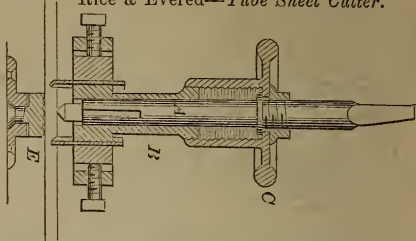


47981—W. A. Reilly—Lathe Chuck.

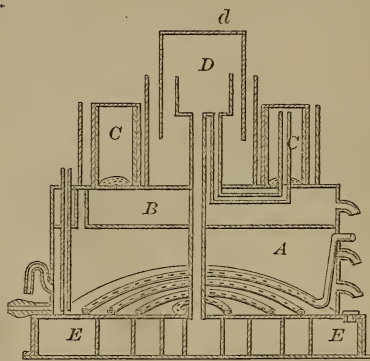
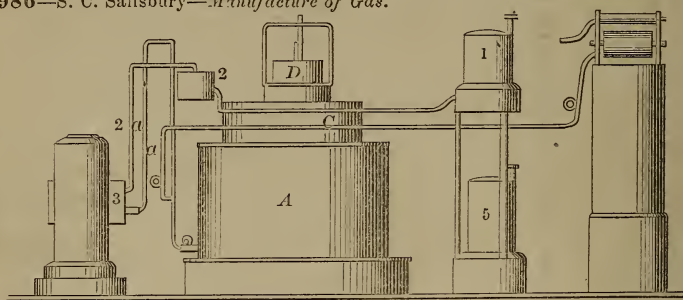
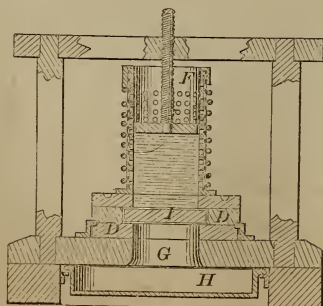
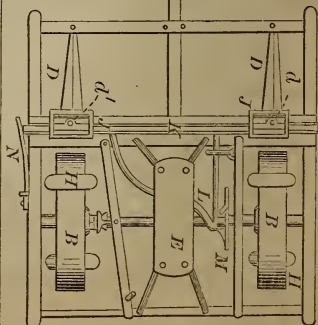


47980—D. Prest—Horse Brake.

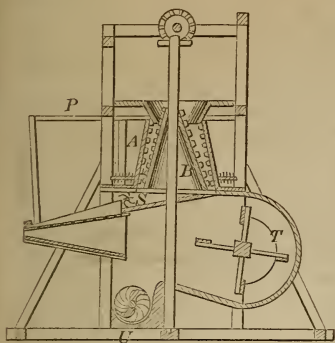


47982—Reynolds & Young—*Horse Hay Fork.*47985—H. M. Rulon—*Car Coupling.*Rice & Evered—*Tube Sheet Cutter.*

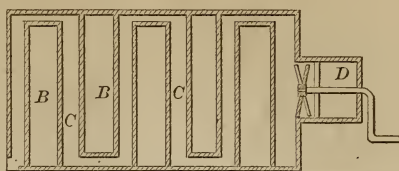
47983—

47986—S. C. Salisbury—*Manufacture of Gas.*47984—D. C. & L. S. Riggs—*Sugar Press.*47987—Saviers & Ayres—*Corn Planter.*

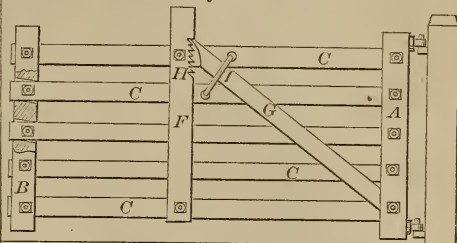
47988—F. H. Schroeder—*Corn Sheller.*



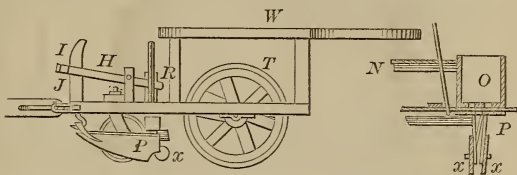
47991—N. S. Shaler—*Air Cooling Apparatus.*



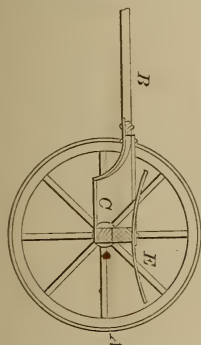
47994—W. F. Smelly—*Farm Gate.*



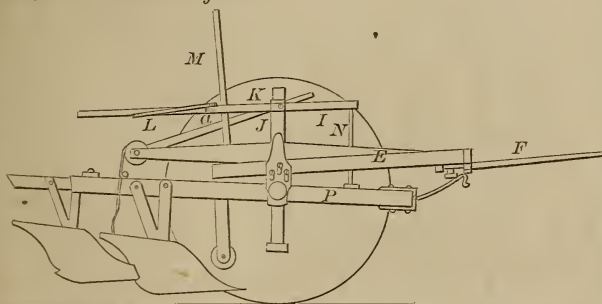
47990—J. Seibel—*Corn Planter.*



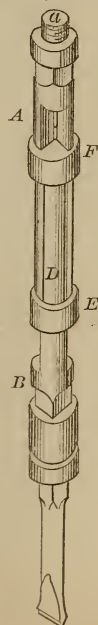
47992—W. Slatter—*Ambulance.*



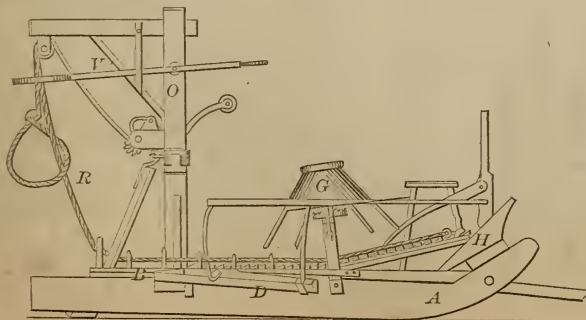
47989—J. Seibel—*Gang Plow.*



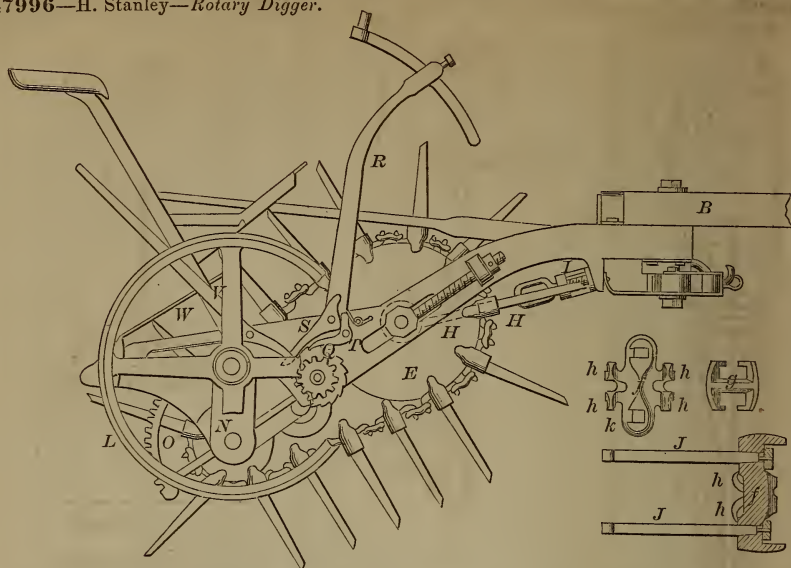
47993—J. Slusser—*Boring Jar.*



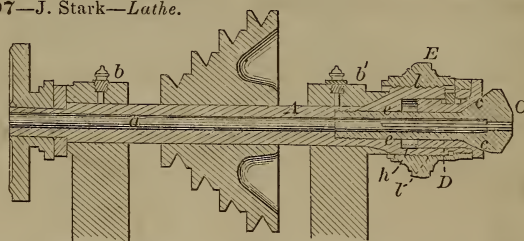
47995—J. W. Smith—*Corn Harvester.*



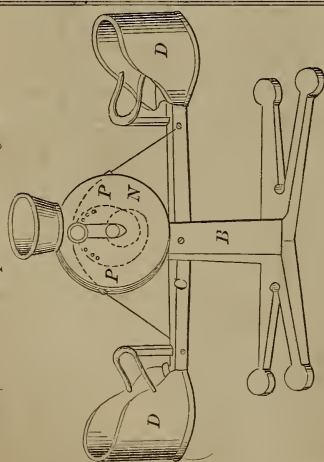
47996—H. Stanley—Rotary Digger.



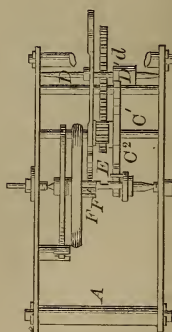
47997—J. Stark—Lathe.



47999—T. P. Thorpe—Exercising Machine.



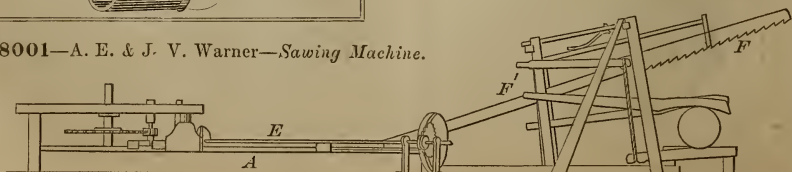
47998—J. Stephenson—Time Keeper.



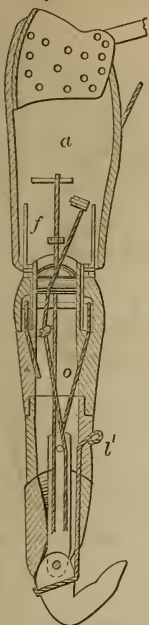
48000—W. J. Towne—Grate.



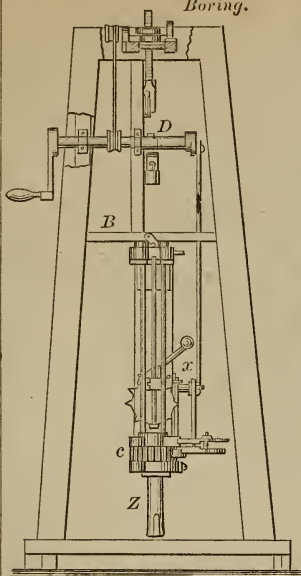
48001—A. E. & J. V. Warner—Sawing Machine.



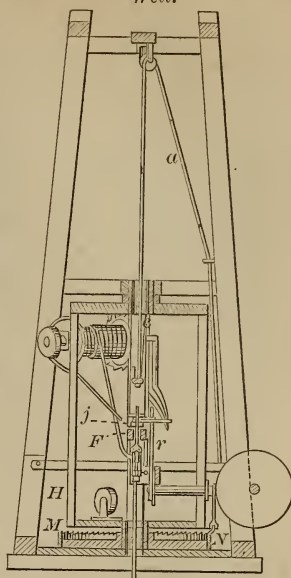
48002—T. Uren—*Artificial Arm.*



48004—G. W. Wicks—*Well Boring.*

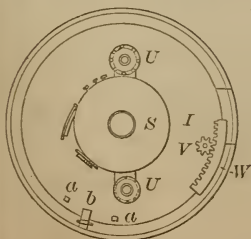
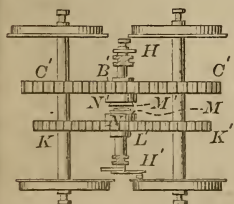
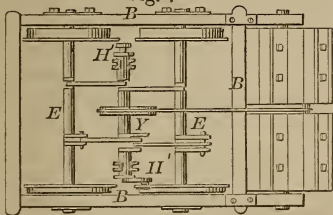


48006—Wiswell & Shaw—*Boring Well.*



48008—J. P. Woodbury—*Street Steam Car.*

Fig. 7

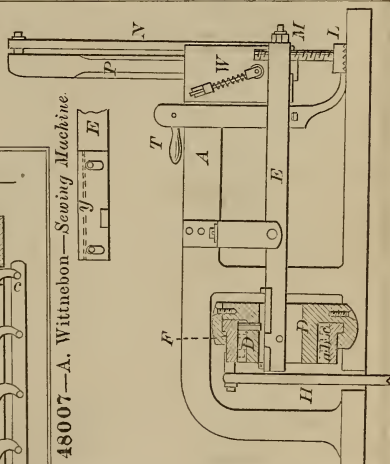


48003—

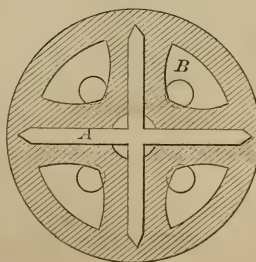
J. Wetzel—*Window Blind.*

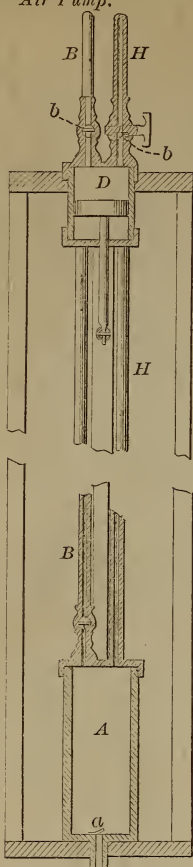
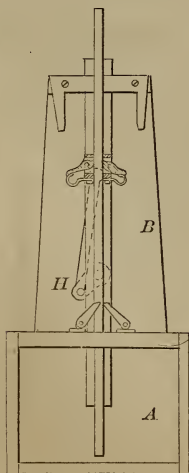
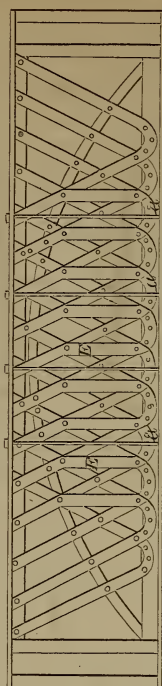
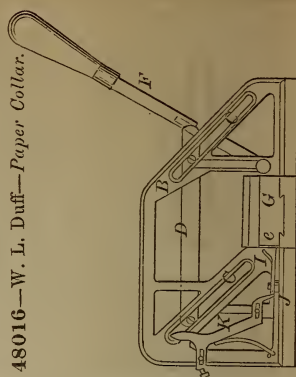
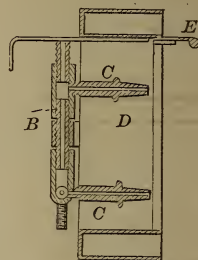
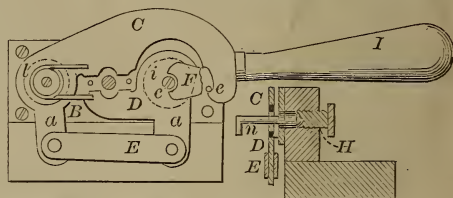
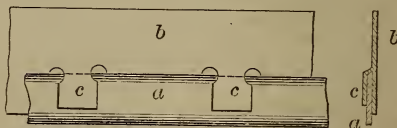
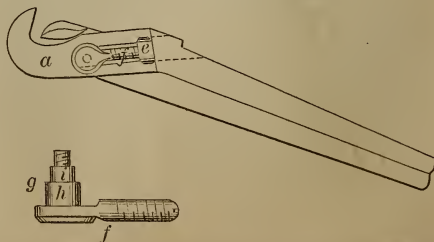


48007—A. Wittnebon—*Sewing Machine.*

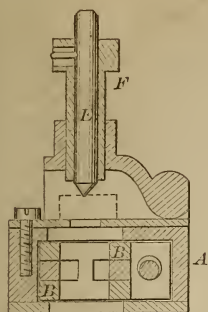


48005—L. E. Williams—*Explosive Shell.*

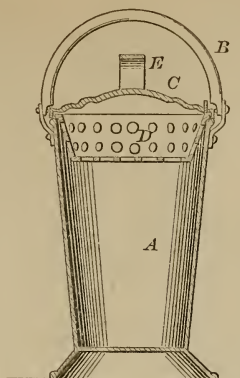


48009—G. M. Woodward—
Air Pump.48012—W. H. Bechtel—
Boring Well.48013—J. Boles, Jr.—*Bridge.*48016—W. L. Duff—*Paper Collar.*48011—Bassett & Smith—*Air
Injector.*48010—J. S. Adams—*Cartridge.*48014—D. Campbell—*Bread Cutter.*48017—S. F. Gamage—*Pipe Tongs.*

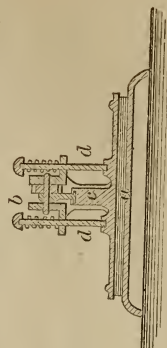
48018—S. Z. Hall—*Punch.*



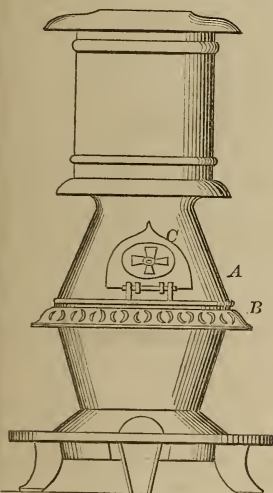
48020—C. Jones—*Coal Hod.*



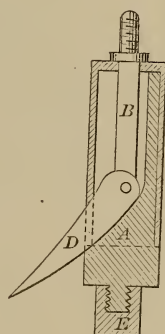
48021—Lawrence & Jefferys—*Copying Press.*



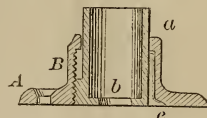
48019—G. W. Herrick—*Stove.*



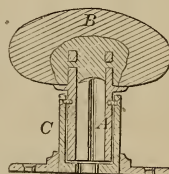
48026—W. G. Oliver—*Well Drill.*



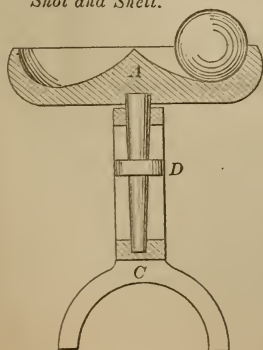
48023—M. V. Nobles—*Door Knob.*



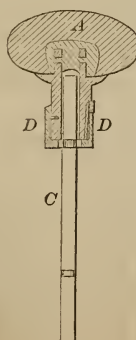
48025—M. V. Nobles—*Door Knob.*



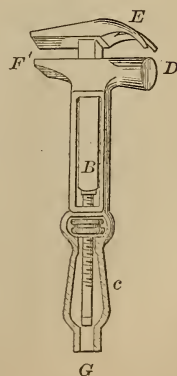
48022—T. J. Lovegroove—*Shot and Shell.*

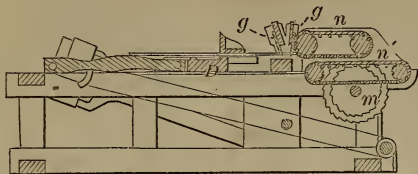
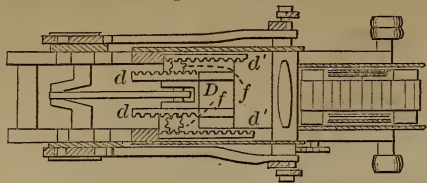
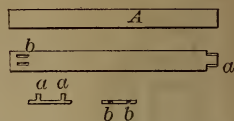
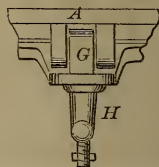
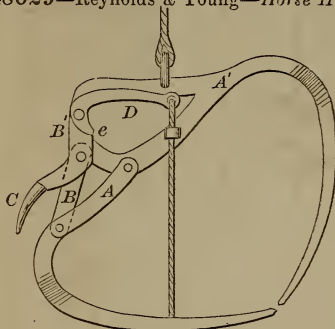
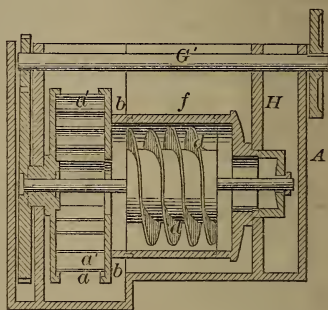
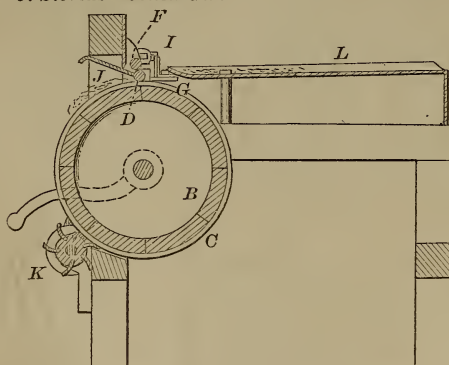
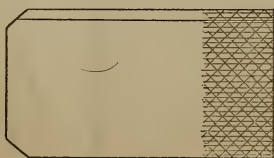
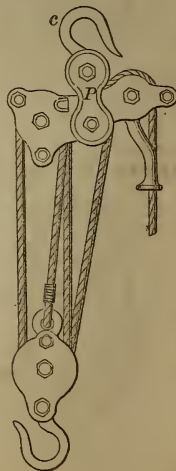


48024—M. V. Nobles—*Door Knob.*

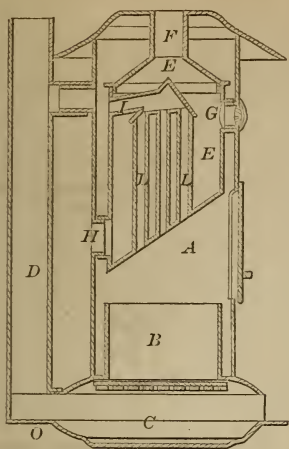


48027—A. W. Park—*Tool.*

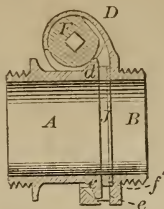


48028—M. Randolph—*Stave Machine.*48031—W. T. Slocum—*Box.*48033—E. B. Vannevar—*Closing Ship's Lights.*48029—Reynolds & Young—*Horse Hay Fork.*48030—H. H. Scoville, Jr.—*Amalgamator.*18032—J. Stevens—*Cotton Gin.*48034—P. J. Jamet—*Safety Tackle.*48036—Arnell & Smith—*Paper Bag.*

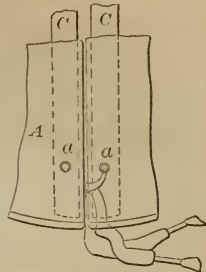
48037—Bamford & Tate—Stove.



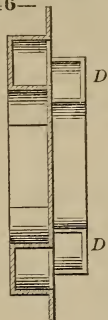
48038—A. E. Barnard—Pipe Coupling.



48045—J. Bowers—Corset.

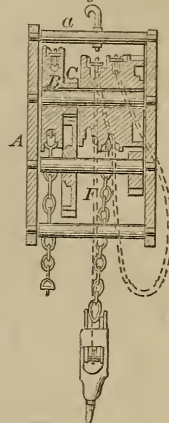


48046—

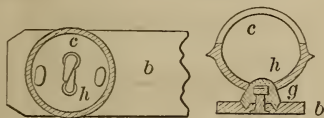


Bradshaw & Wilson—Stove Pipe Damper.

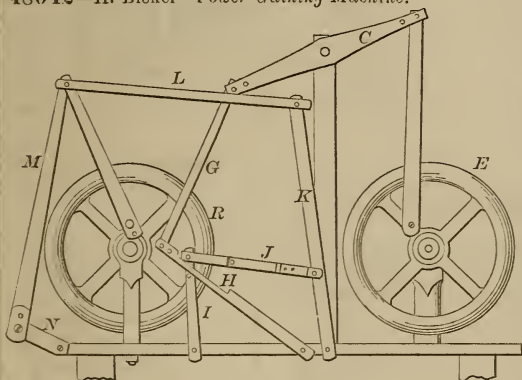
48044—J. Bird—Hoisting Machine.



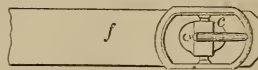
48040—W. E. Barton—Sleigh Bell.



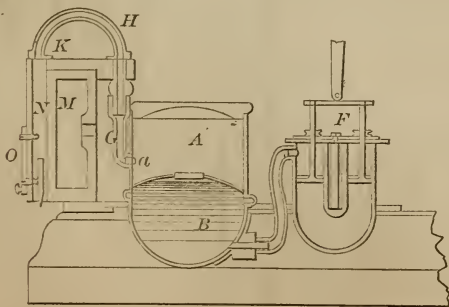
48042—H. Bickel—Power Gaining Machine.



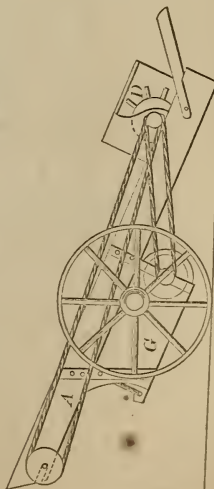
48039—W. E. Barton—Buckle.

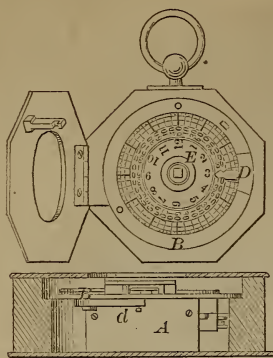
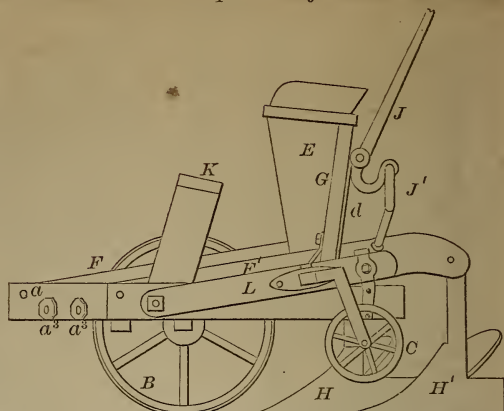
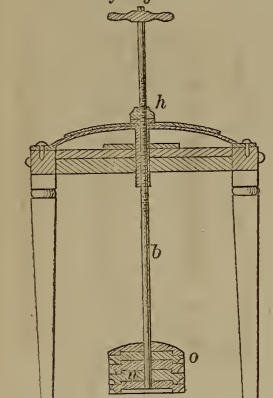
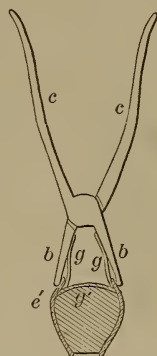
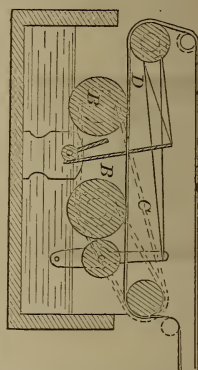
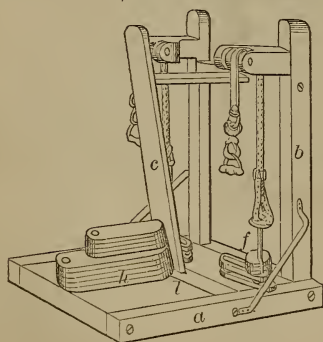
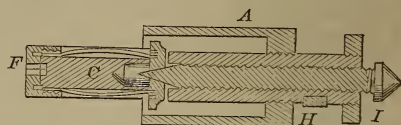
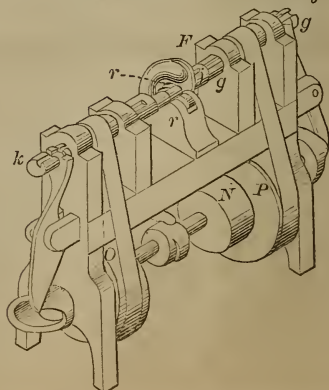
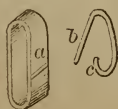


48043—D. Bickford—Air Engine.

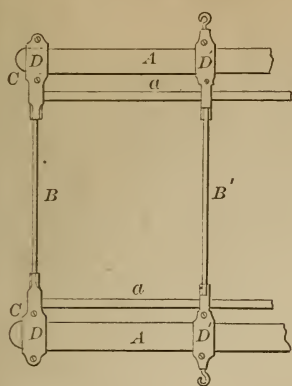


48047—C. B. & W. T. Brown—Threshing Machine.

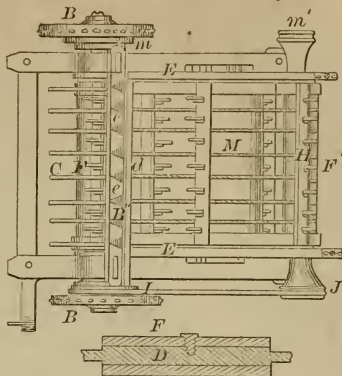


48048—J. E. Buerk—*Time Detector.*48049—Brown & Slimpert—*Gang Plow.*48050—D. P. Butler—*Weight Lifting.*48052—J. & A. B. Cain—*Shank Laster.*48053—T. W. Clarke—*Washing Printing Blankets.*48051—D. P. Butler—*Weight Pulling.*48054—D. A. Dacey—*Boiler Tube Cutting.*48056—Ellis & Stetson—*Cartridge.*48055—C. H. Dana—*Sheep Label.*

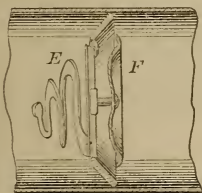
48057—M. Finkle—*Loom.*



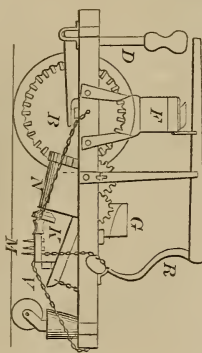
48064--G. W. Hatch--*Gathering Flax.*



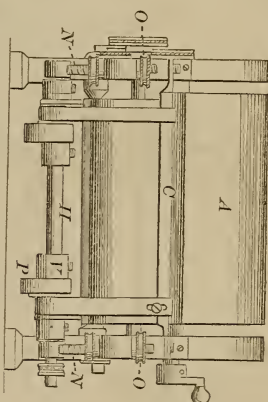
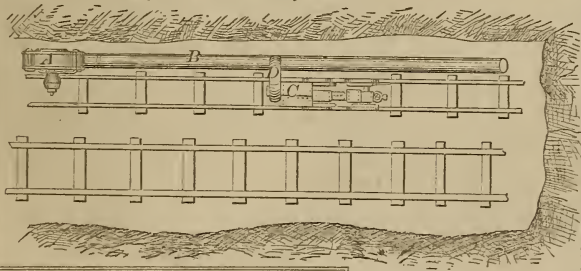
18058—
A. V. & A. F. Fletcher—
Stove Pipe Damper.



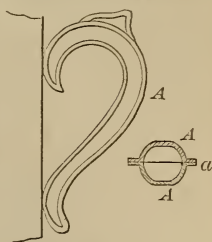
48063—W. H. Hartman—Seedling Machine



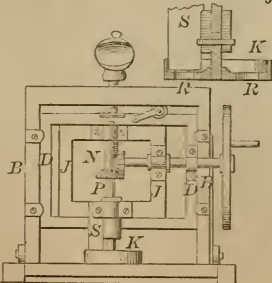
18059—P. S. Haines—*Carding Machine.*

18065—H. Haupt—*Ventilation of Mines.*

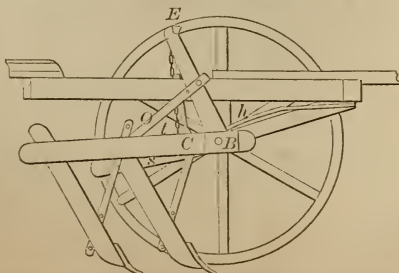
48061—G. B. Halsted—
Tea Pot Handle.

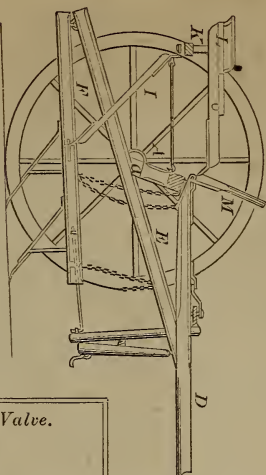
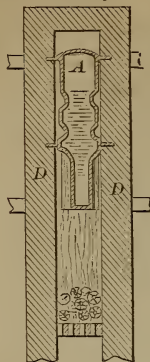


48062—J. Harsha—*Stone Polishing.*

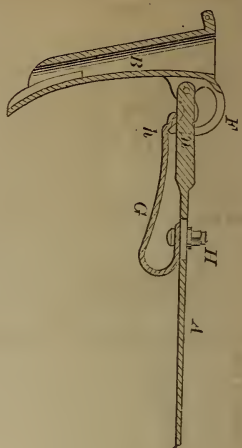


18065—S. G. Morning—*Cultivator*.



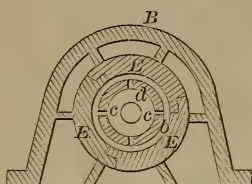
48067—H. Howard—
Steam Heating.

48068—H. Howe—Cultivator.

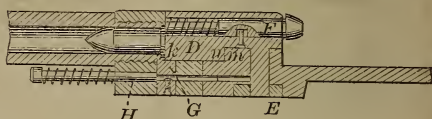
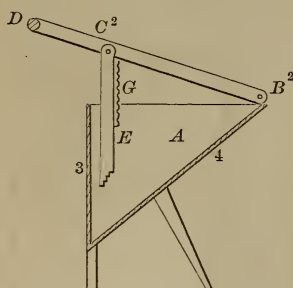


48069—J. Ingels—Grain Drill.

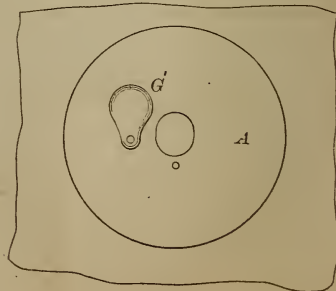
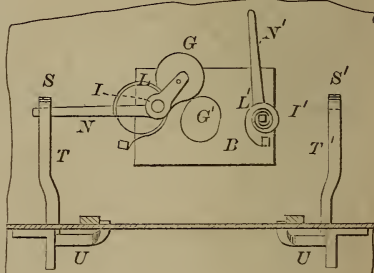
48070—J. G. Ives—Slide Valve.



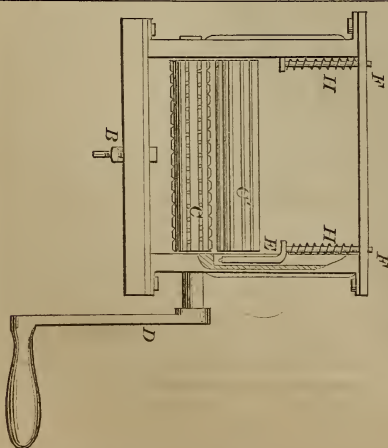
48073—B. F. Joslyn—Fire Arm.

48071—J. Johnson—Washing
Machine.

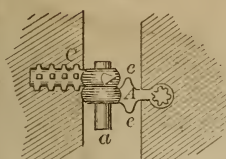
48074—J. H. Kavanagh—Porthole Closer.



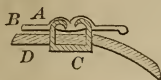
48072—R. V. Jones—Meat Crusher.



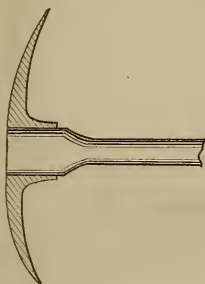
48075—C. F. Knauer—*Shutter Hinge.*



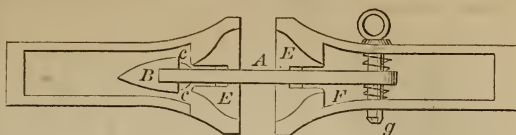
48079—C. M. Loomis—*Button.*



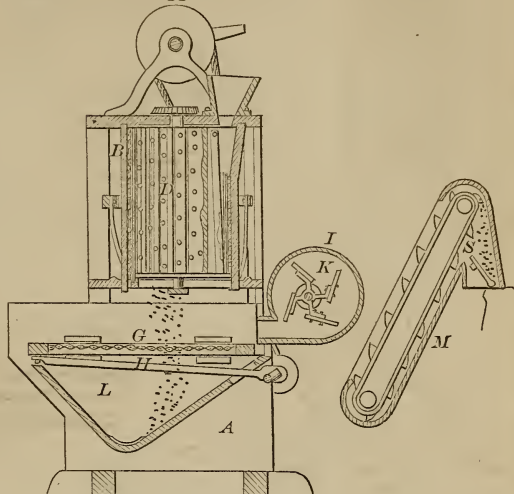
48080—H. L. Lowman—*Mining Pick.*



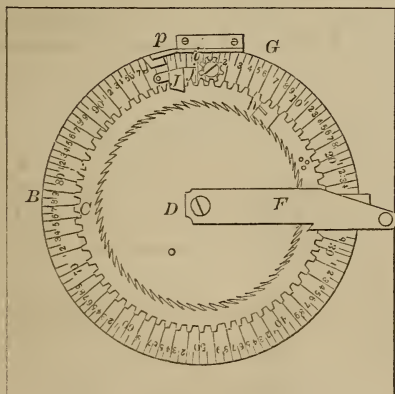
48076—G. C. Lawton—*Car Coupling.*



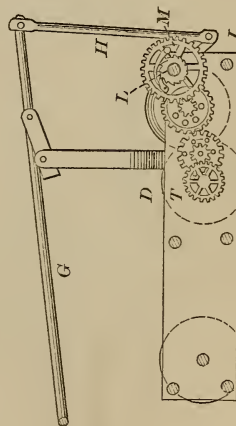
48077—C. J. Legg—*Corn Husker.*



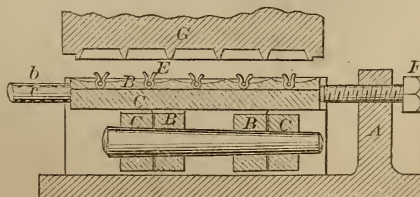
48078—G. R. Lewis—*For Tallying Lumber.*



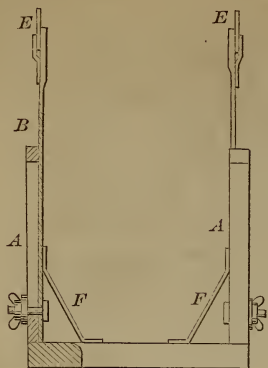
48081—C. M. Mann—*Street Car.*



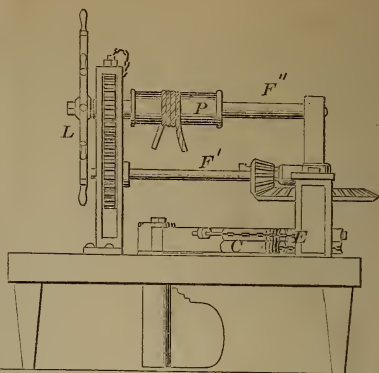
48082—Matthewman & Leininger—*Button Mould.*



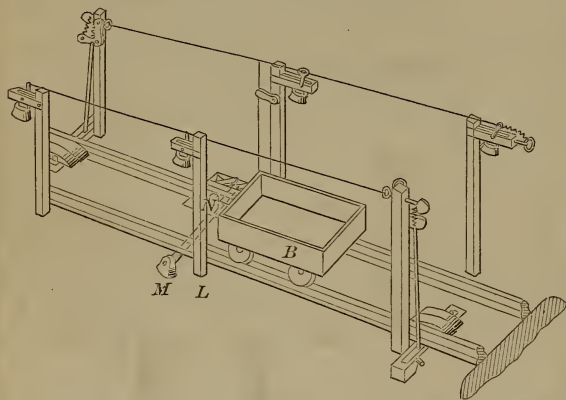
48083—L. W. Morlan—*Bag Holder.*



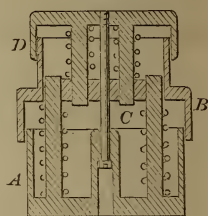
48087—A. H. North—*Steering Apparatus.*



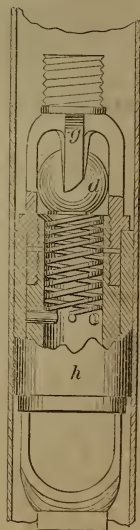
48085—G. Natcher—*Railroad Signal.*



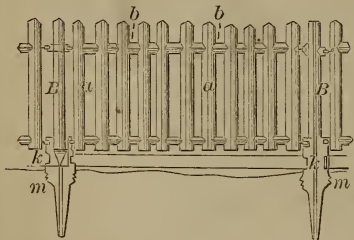
48084—J. Murray—
Car Spring.



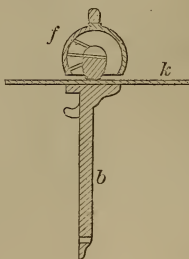
48089—J. Old—
Pump.



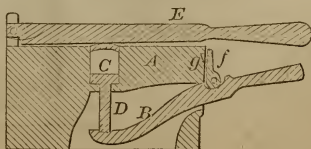
48086—W. Nevins—*Fence.*



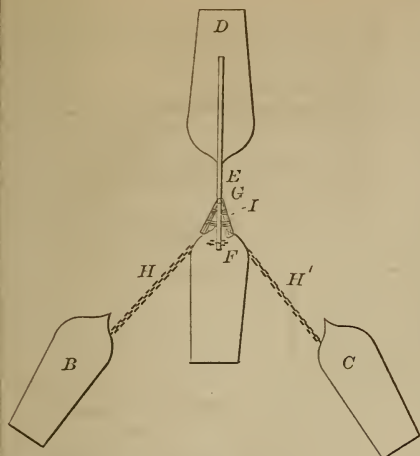
48090—S. J. Olmstead—
Rein Holder.



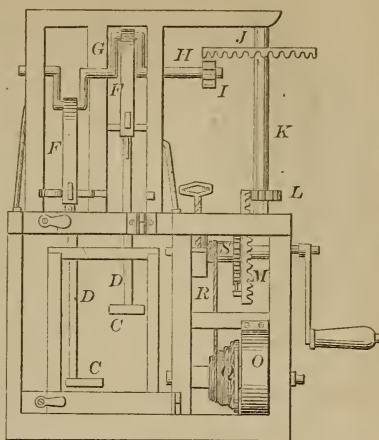
48088—A. Nudd—
Butter Moulding.



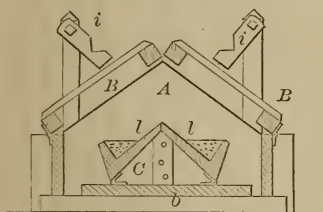
48091—A. Z. Page—*Raising Sunken Vessels.*



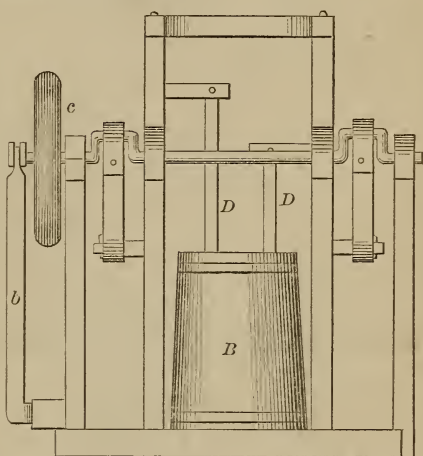
48094—J. Redding—*Churn.*



48093—J. P. Ray—*Sheep Rack.*



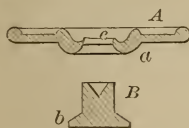
48096—A. Rhoades—*Churn.*



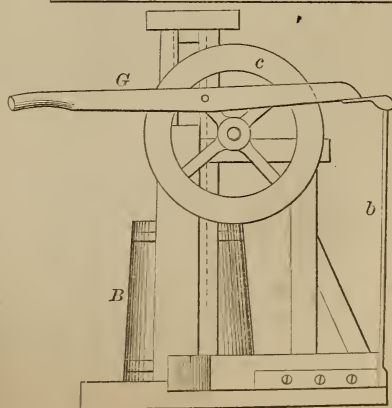
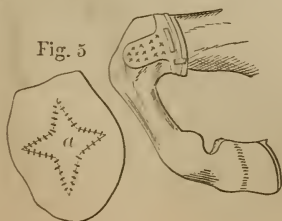
48092—C. H. Rahmer—*Hat.*

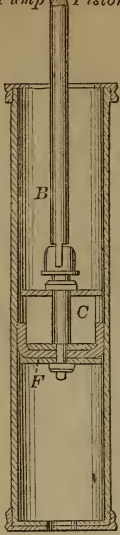
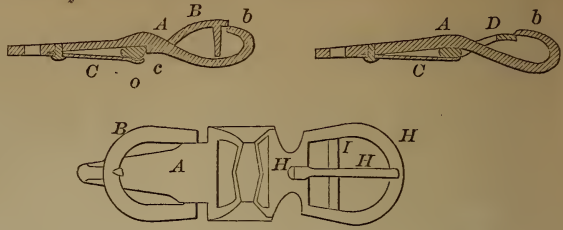
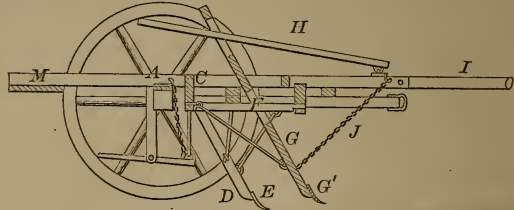
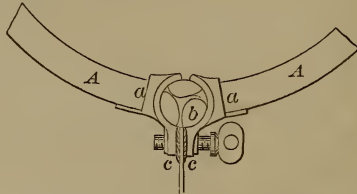
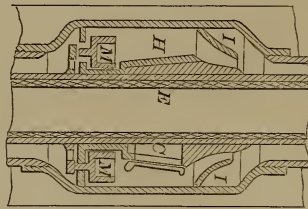
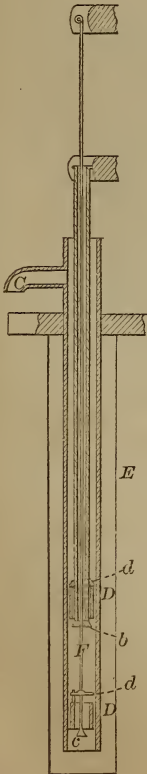
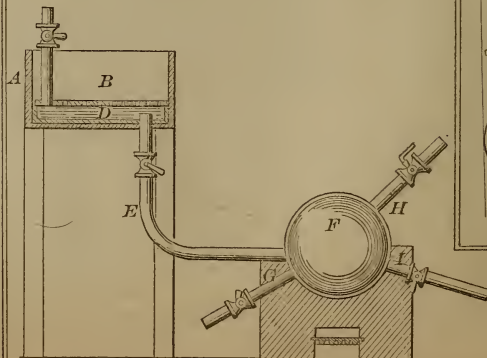
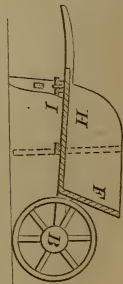


48095—W. H. Reed—*Button.*

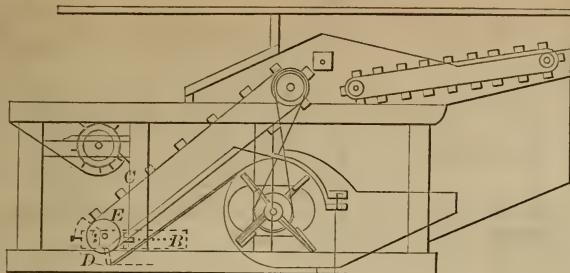


48097—S. Rossman—*Horse Leg Fender.*

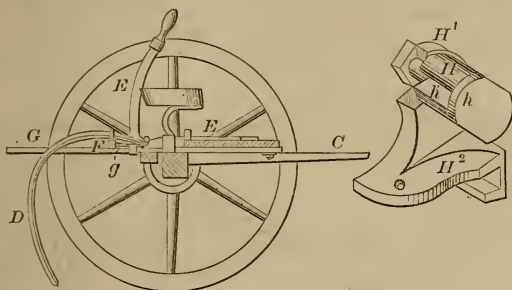


48098—P. C. Rowe—
Pump Piston.48100—C. W. Saladee—*Snap Hook.*48102—W. G. Savage—*Cultivator.*48103—E. A. Sawyer—*Sail Clutch.*48105—J. Sheffield—
Pump.48106—J. Y. Smith—
*Oil Ejector.*48107—L. Smith—*Making Extracts.*48104—G. M. & S. H. Seward—*Seed Planter.*48101—N. S. Sanford—*Wheelbarrow.*

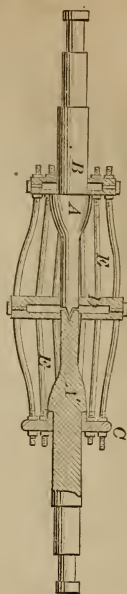
48108—S. Spencer—*Threshing Machine.*



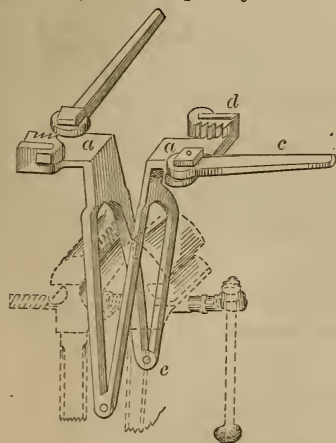
48109—A. B. Sprout—*Horse Rake.*



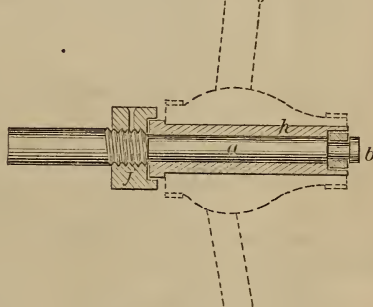
48114—Tibbels & Merriell—*Axle.*



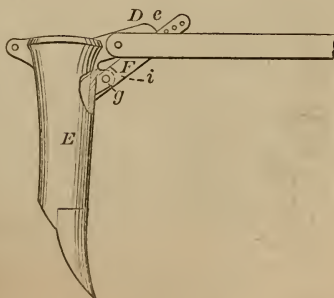
48110—A. Stedman—*Upsetting Tire.*



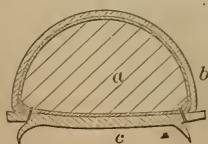
48111—G. H. Thomas—*Carriage Axle.*

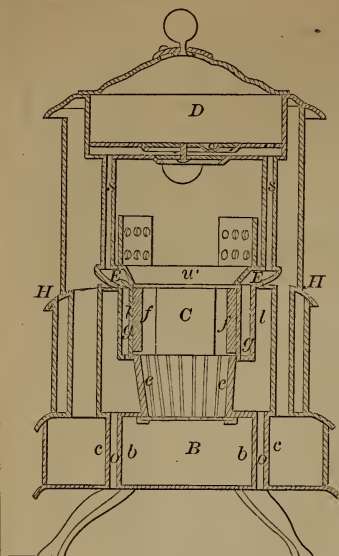
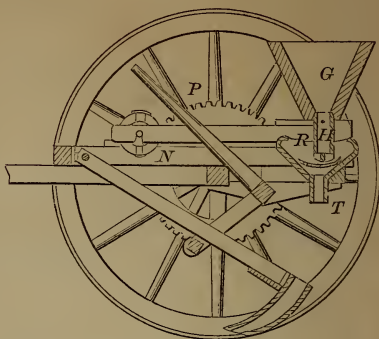
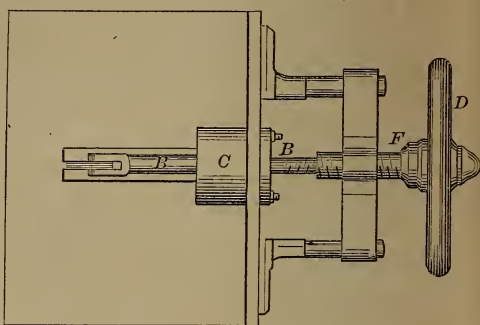
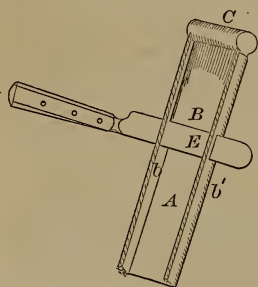
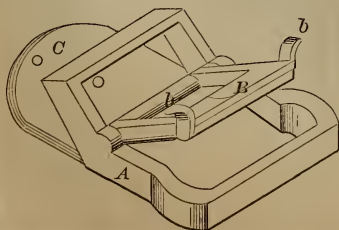
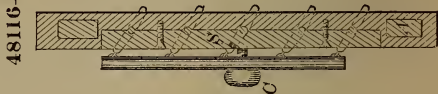
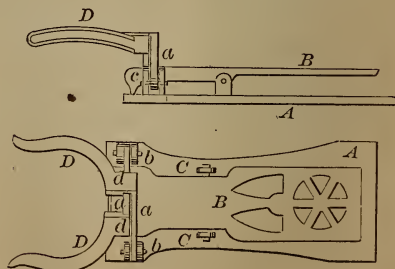


48112—Thomas & Mast—*Grain Drill.*

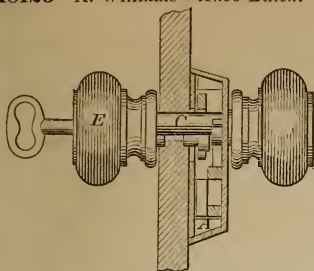


48113—Thompson & Mears—*Shoe.*

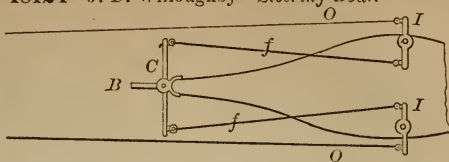


48115—W. B. Treadwell—*Stove.*48117—A. H. Wagner—*Seed Drill.*48120—H. W. Warner—*Valve Gear.*48118—S. Walker—*Vegetable Slicer.*48119—C. Walton—*Segar.*48121—H. W. Warner—*Lever Buckle.*48116—A. V. Wagenen—*Window Blind.*48122—J. Wheeler—*Boot Jack.*

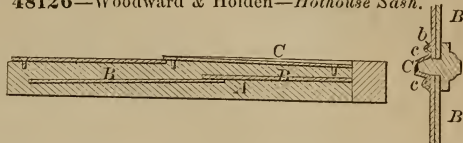
48123—A. Williams—*Knob Latch.*



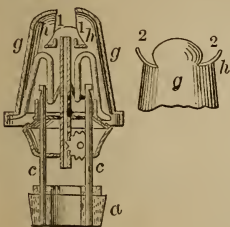
48124—J. D. Willoughby—*Steering Boat.*



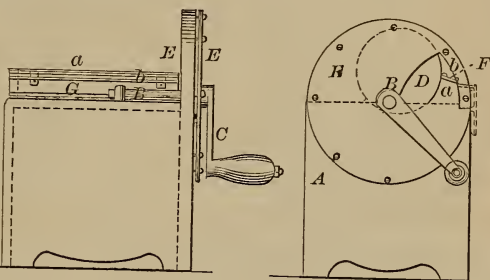
48126—Woodward & Holden—*Hothouse Sash.*



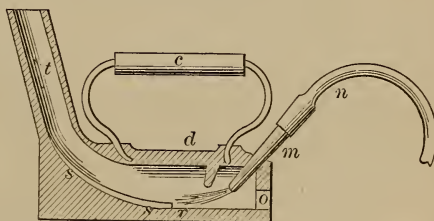
48128—M. C. Calender—*Lamp.*



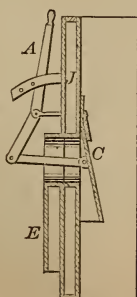
48127—J. Buckett—*Bread Cutter.*



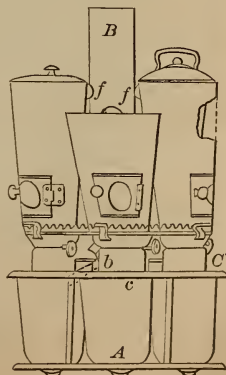
48129—R. Drake—*Sad Iron.*



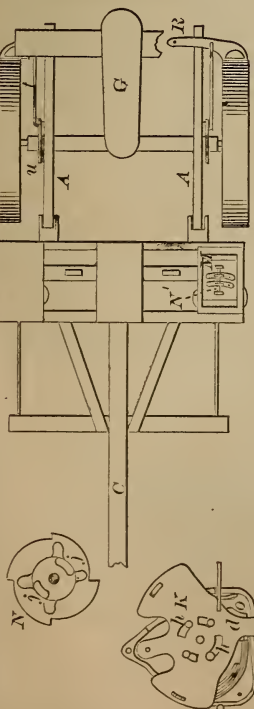
48125—Wilson & Shaw—*Furnace.*



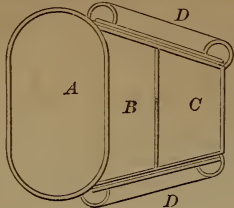
48131—I. Holmes—*Petroleum Stove.*



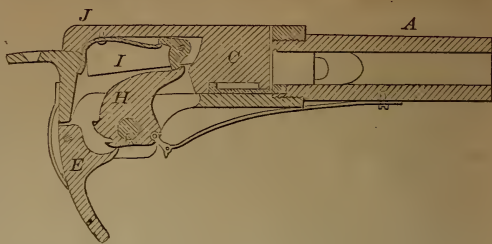
48130—J. Gross—*Corn Planter.*



48132—H. M. Jewett—*Safety Match Holder.*



48133—W. Morgenstern—*Fire Arm.*



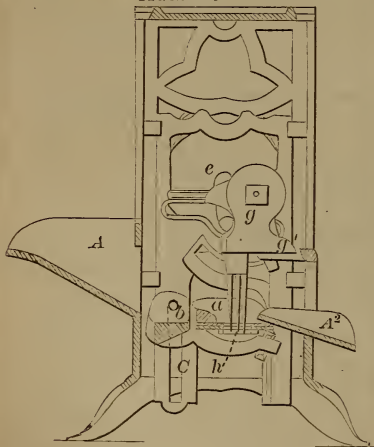
48135—J. E. Smith—*Buckle*.



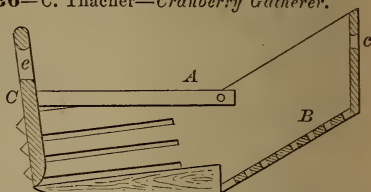
48134—D. Read—*Roll for Spinning.*



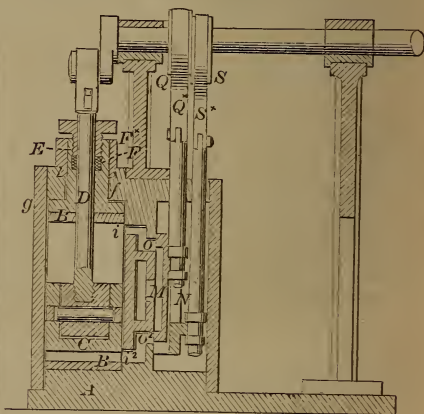
48137—T. Van Kannel—*Cherry Stoning Machine.*



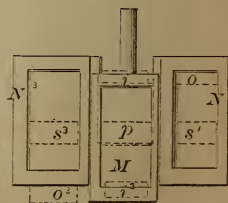
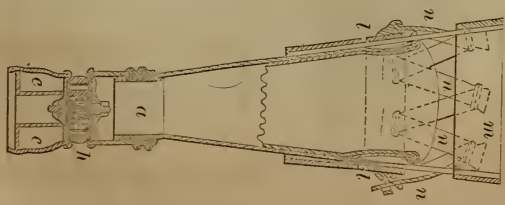
48136—C. Thacher—*Cranberry Gatherer.*



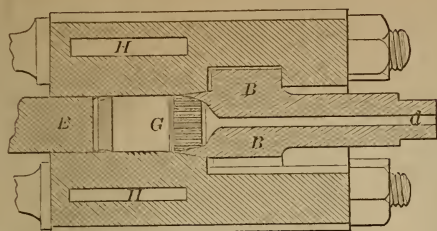
48139—R. Wyatt—*Steam Engine.*



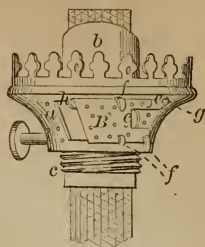
18138—Weston & Stanley—
Artificial Leg.



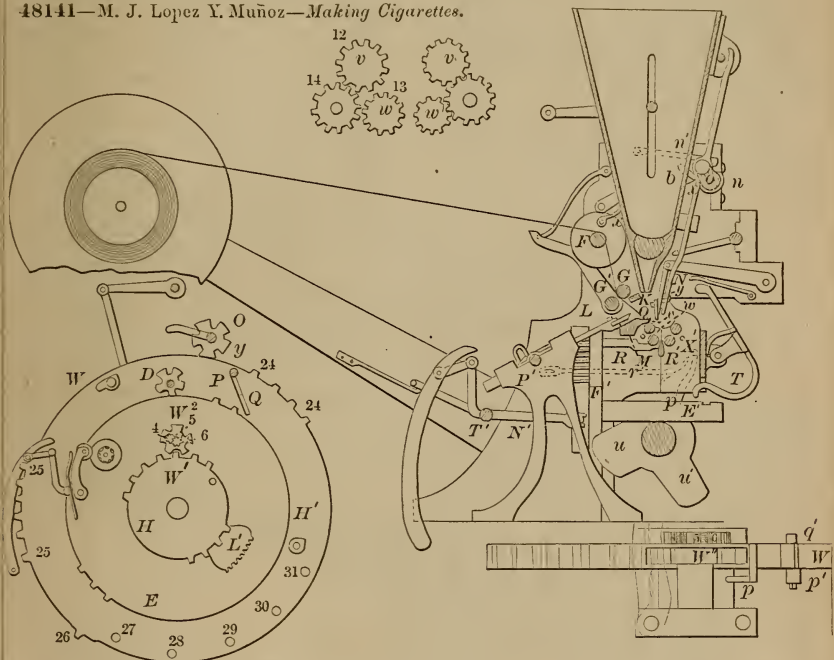
48140—J. Marshall—Oil Press.



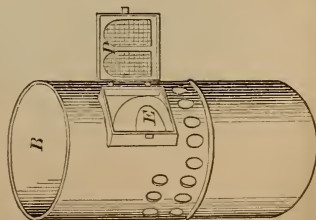
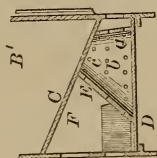
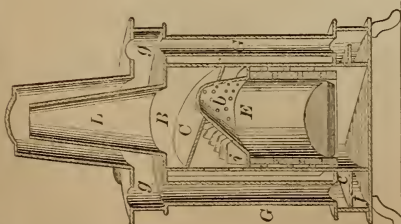
48142—J. Wood—Lamp Burner.



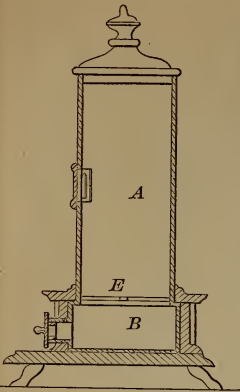
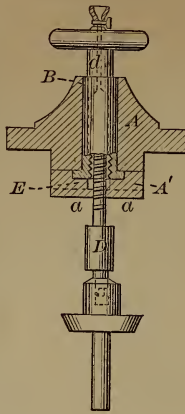
48141—M. J. Lopez Y. Muñoz—Making Cigarettes.



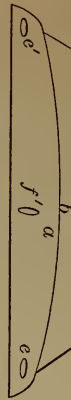
48143—P. P. Stewart—Store.



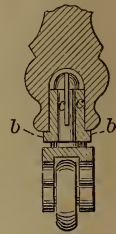
48144—J. G. Allen—Stove.

48147—T. & J. Barber—
Stuffing Box.

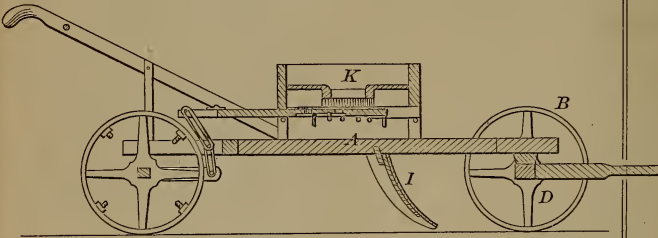
48148—W. S. Bell—Paper Collar.



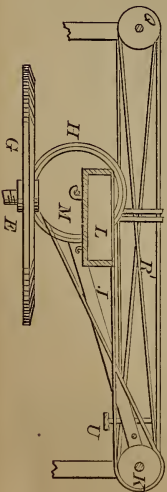
48152—C. E. Brown—Shoe Case.

48146—M. L. Babb—
Furniture Caster.

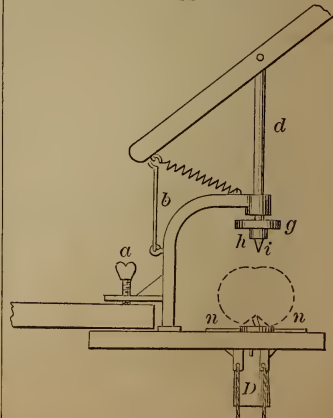
48145—J. B. Amos—Grain Drill.



48151—C. B. Brooks—Baling Press.



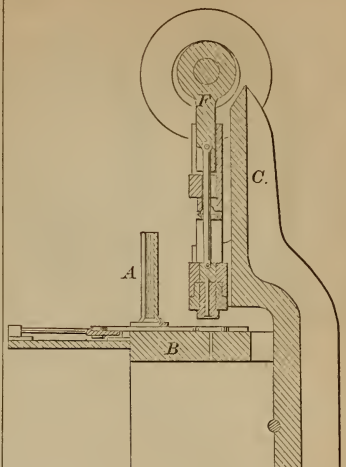
48150—W. Blessing—Corn Planter.

48149—N. Bennett—Coring
Apples, &c.48153—L. C. Chase—Attaching Loops to
Buckles.

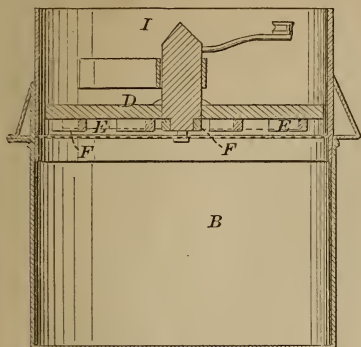
48154—J. H. Coburn—*Shuttle.*



48157—J. A. Coleman—*Clinch Ring.*



48156—D. C. Colby—*Flour Sifter.*

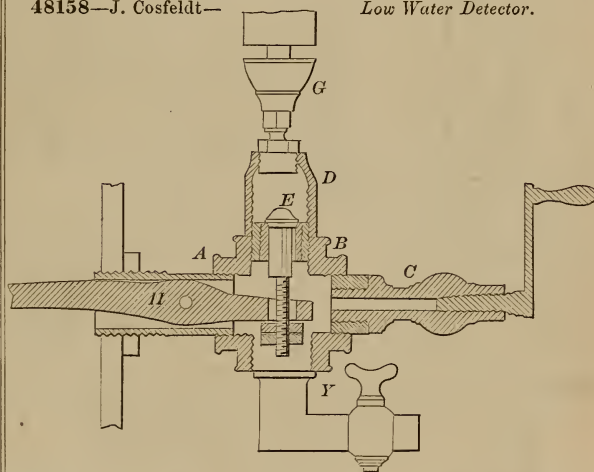


48155—D. C. Colby—*Distributing Fertilizer.*



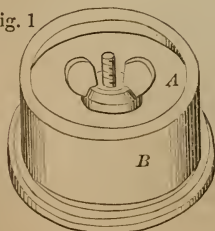
48158—J. Cosfeldt—

Low Water Detector.

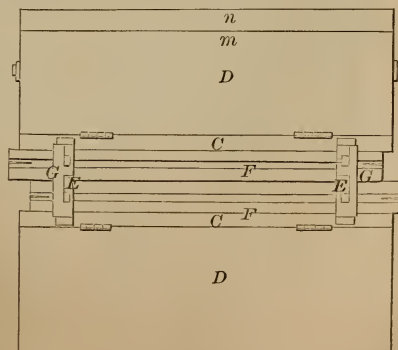


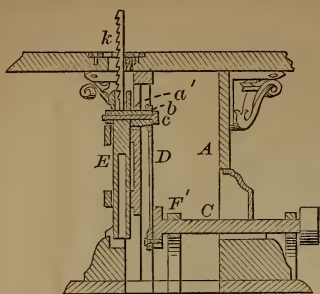
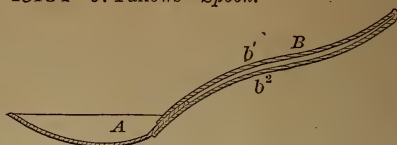
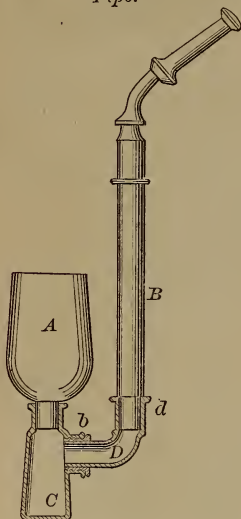
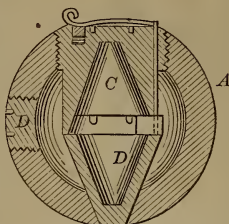
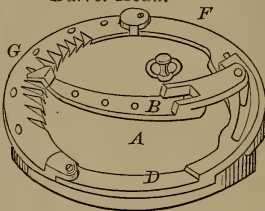
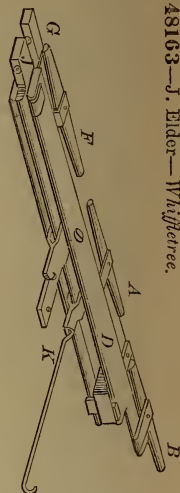
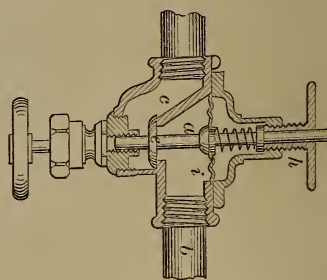
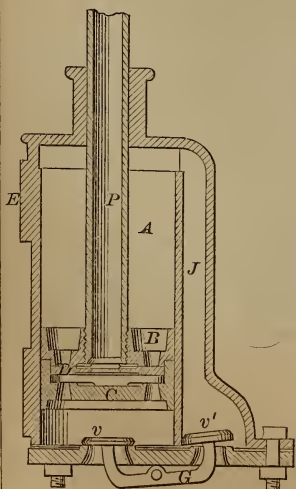
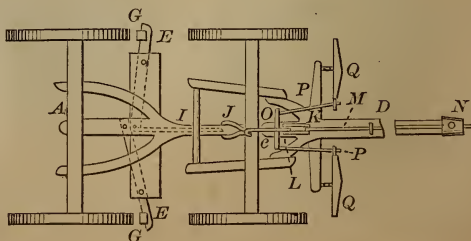
48160—E. H. Danforth—*Corundum Press.*

Fig. 1



48159—J. Crane—*Wool Press.*

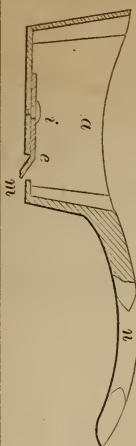


48161—W. H. Doane—*Scroll Sawing.*48164—J. Fallows—*Spoon.*48162—F. Doellbor—*Tobacco Pipe.*48167—G. P. Ganster—*Fuze for Shell.*48168—L. L. Gilliland—*Barrel Head.*48163—J. Elder—*Whiffetree.*48165—A. D. Foster—*Pump.*48166—G. H. Fox—*Steam Regulator Valve.*48169—W. Glaze—*Wagon Brake.*

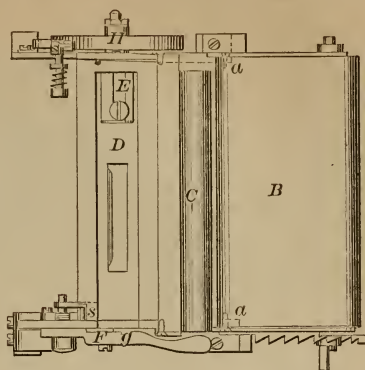
48170—
W. R. Greenleaf—
Oil Ejector.



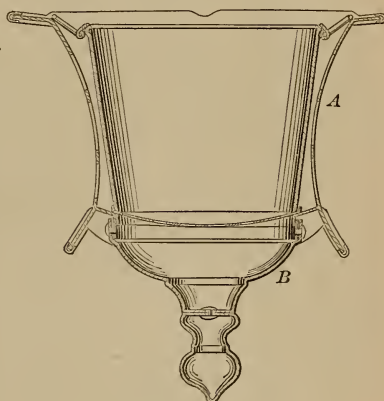
48173—Harkness & Mack—*Ice Scraper.*



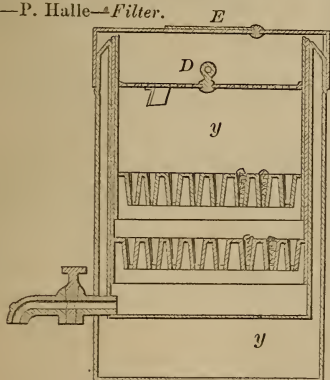
48174—C. & F. W. Hoffman—*Cutting off Cigars.*



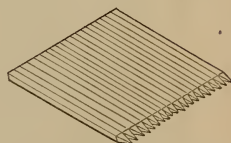
48171—G. Gunther—*Flower Basket.*



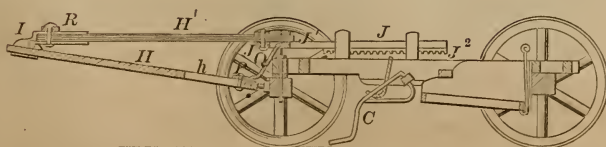
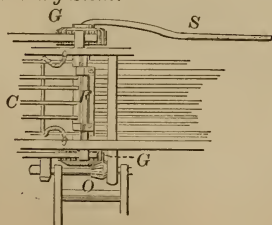
48172—P. Halle—*Filter.*

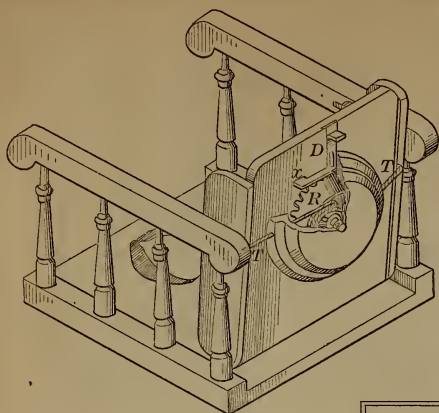
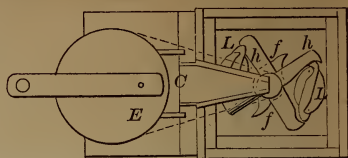
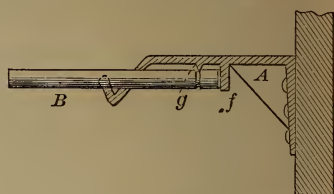
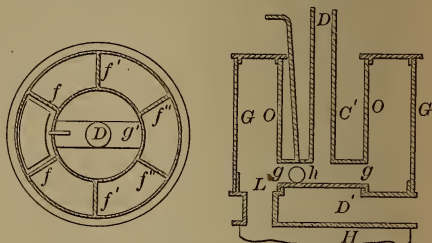
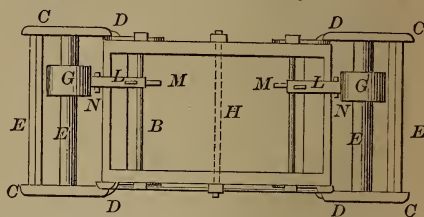
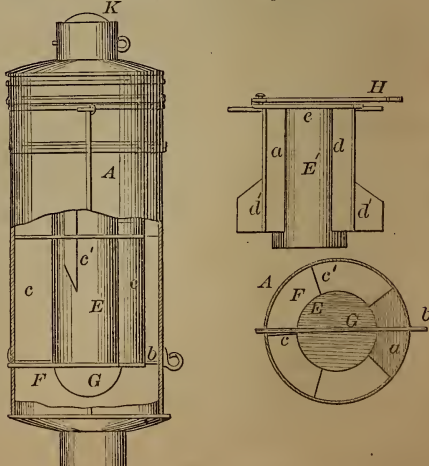
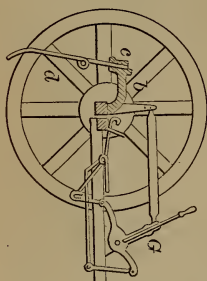
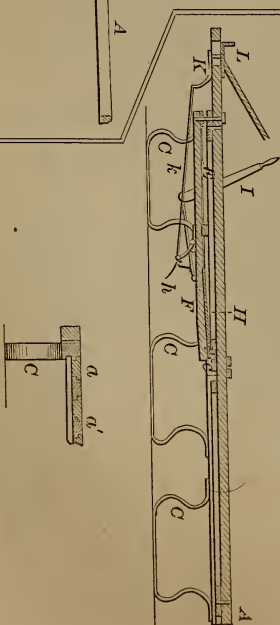


48176—B. Hotchkiss—*Matches.*

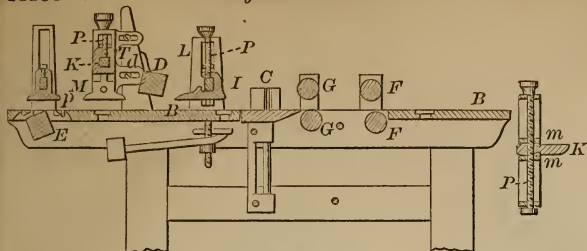


48175—G. W. Holley—*Loading Stone.*

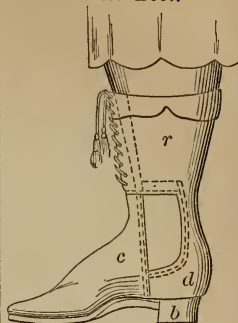


48177—J. A. & H. A. House—*Chair*.48182—R. Keese—*Churn*.48183—D. J. Kellogg—*Clothes Dryer*.48180—J. B. Hyzer—*Stove Radiator*.48181—S. Keeler—*Wood Bending*.48184—W. Kroeger—*Stove Pipe Drum*.48179—D. G. Hussey—*Horse Rake*.48178—D. G. Hussey—*Steel*.

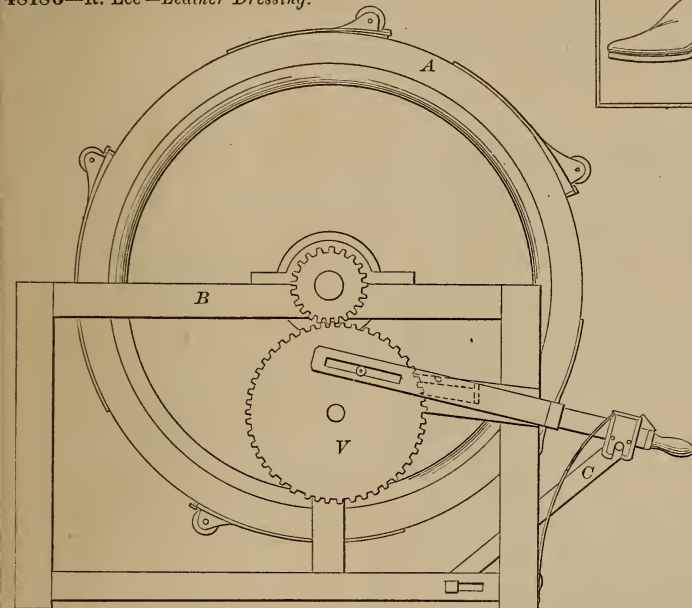
48185—H. A. Lee—Planing Machine.



48188—H. Libby—Ladies' Boot.



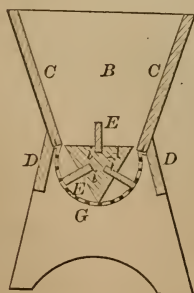
48186—R. Lee—Leather Dressing.



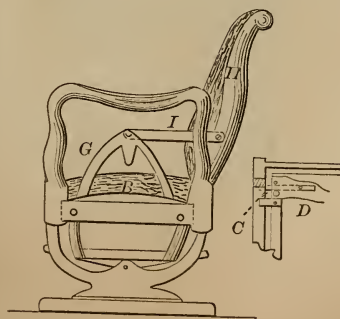
48190—W. Loucks—Egg Cooker.

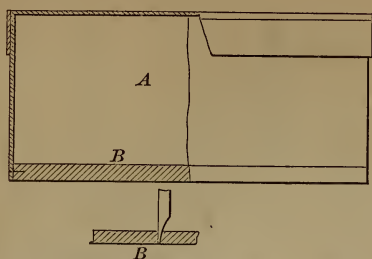
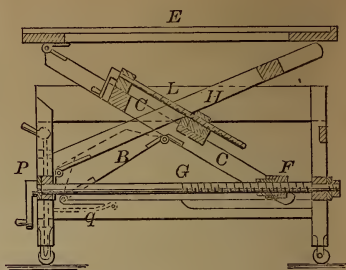
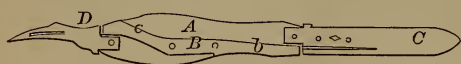
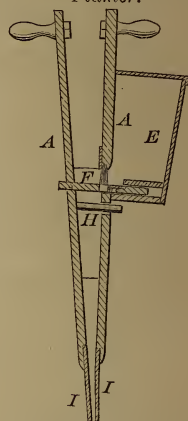
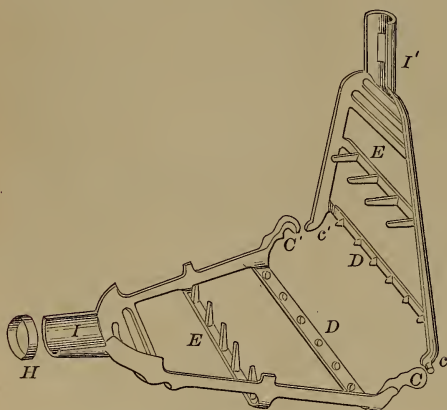
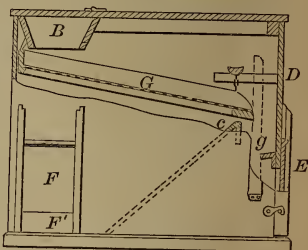
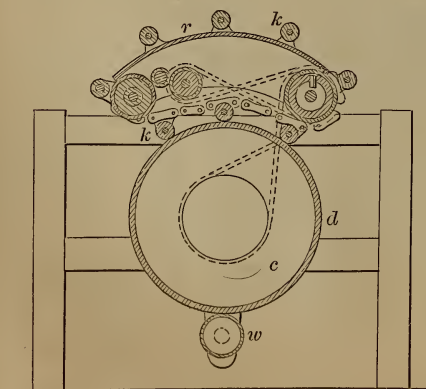
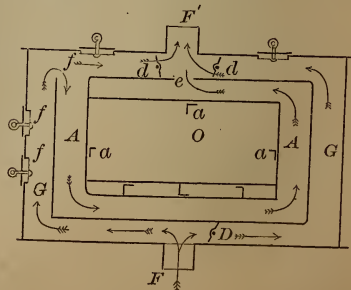


48189—J. H. Littlefield—Flour Sifter.

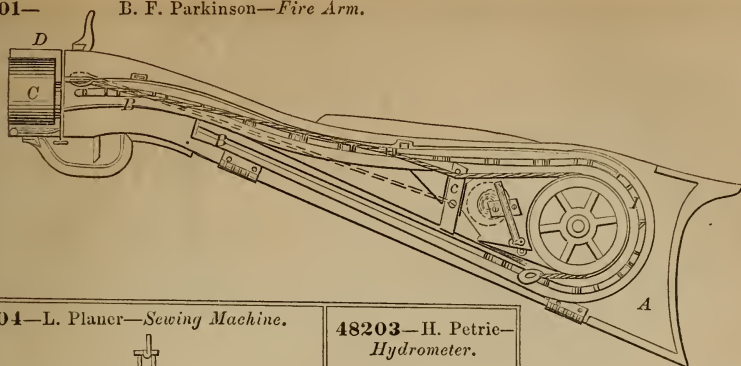


48191—Lockwood & Pitman—Car Seat.

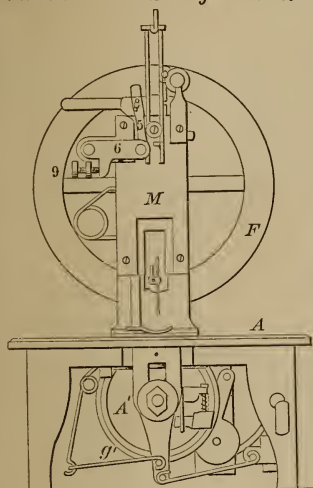


48192—O. Mallory—*Grape Box*.48193—H. Manger—*Camera Stand*.48194—G. Mayland—*Fruit Knife*.48197—J. Morris—*Hand Corn Planter*.48195—C. E. Miller—*Broom Head*.48196—C. T. Miller—*Ash Sifter*.48199—Munroe & Mason—*Paper Hanging*.48200—A. B. Nott—*Oven*.

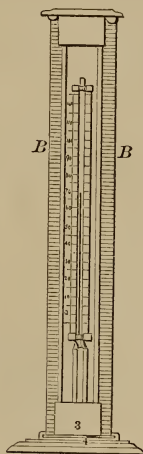
48201— B. F. Parkinson—*Fire Arm.*



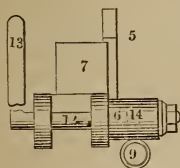
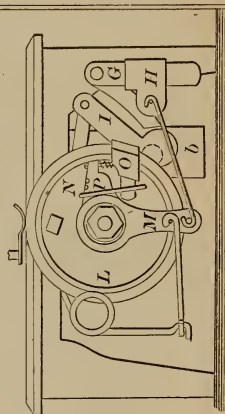
48204—L. Planer—*Sewing Machine.*



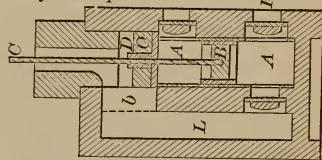
48203—H. Petrie—*Hydrometer.*



48205—L. Planer—*Sewing Machine.*



J. Peabody—*Pump.*



48207—J. Raddin—*Carriage Wheel.*

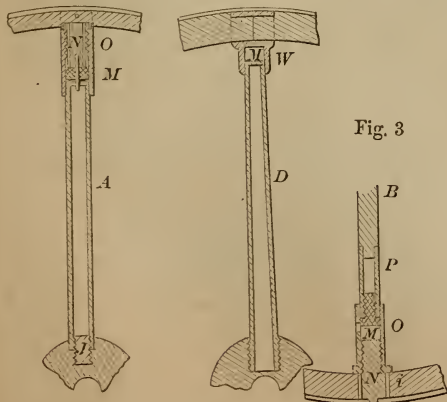
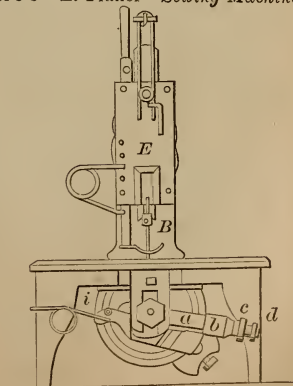
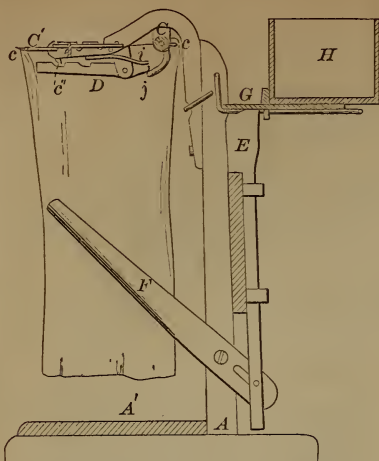
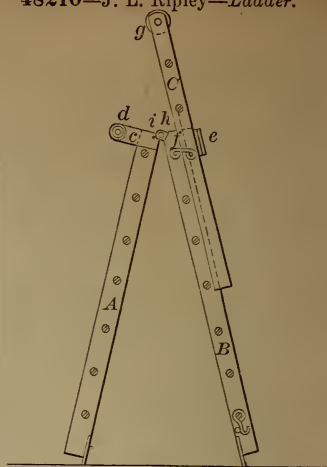


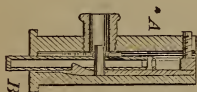
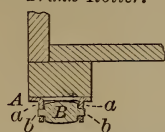
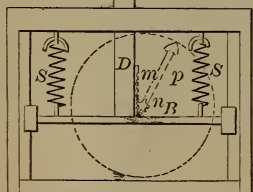
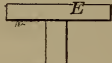
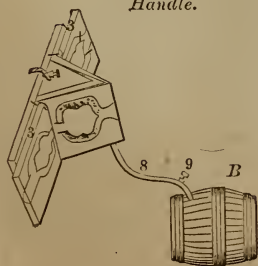
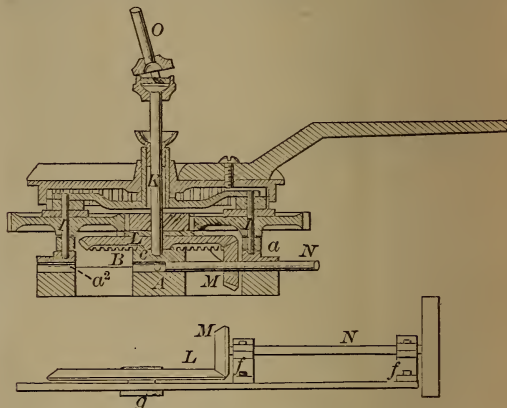
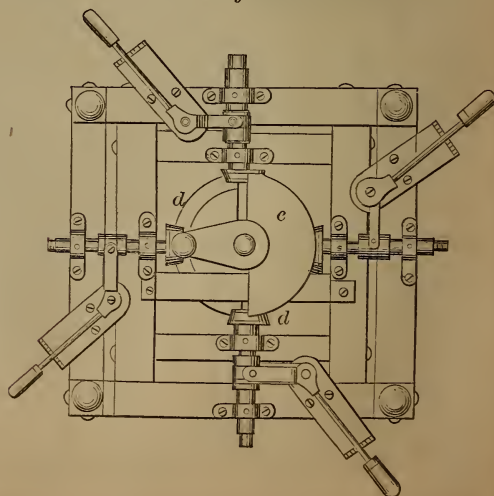
Fig. 3

48206—L. Planer—*Sewing Machine.*

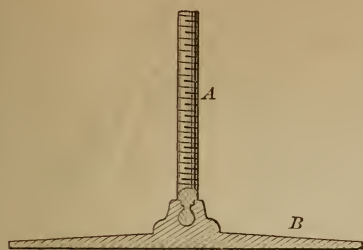


48208—G. E. Randall—*Filling Bag.*48210—J. L. Ripley—*Ladder.*H. D. Richardson—*Lock.*

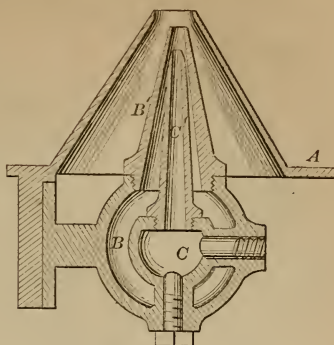
48209—

48214—Schmadel & Lieb—*Trunk Roller.*48211—H. Saloshinsky—*Spring Balance.*48215—D. W. Sexton—*Coffin Handle.*48212—G. Sanford—*Horse Power.*48216—T. Shaw—*Grinding Valves.*

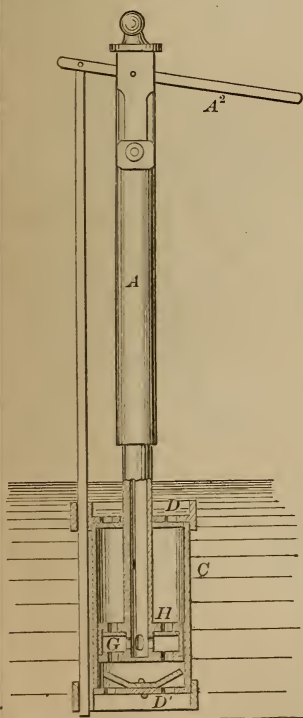
48217—W. Shriver—*Copying Press.*



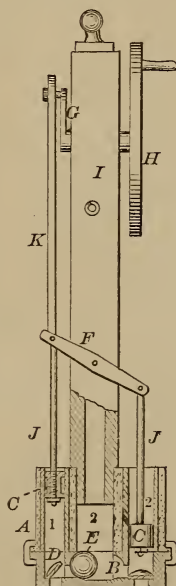
48218—Snowdon & Wilkins—*Boiler Ejector.*



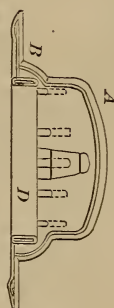
48219—H. M. Stroker—*Pump.*



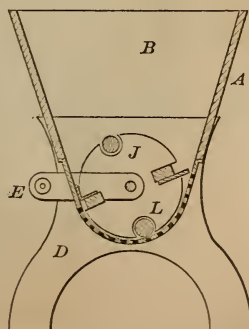
48220—H. M. Stroker—*Pump.*



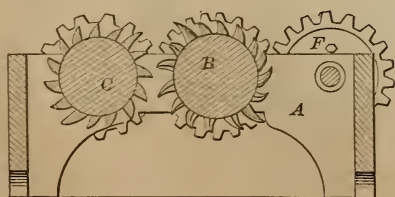
48222—Albright & De Lange—*Hat.*



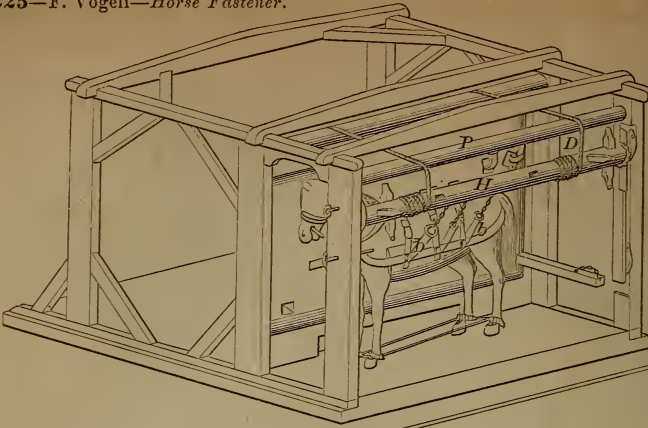
48223—H. Tilden—*Flour Sifter.*



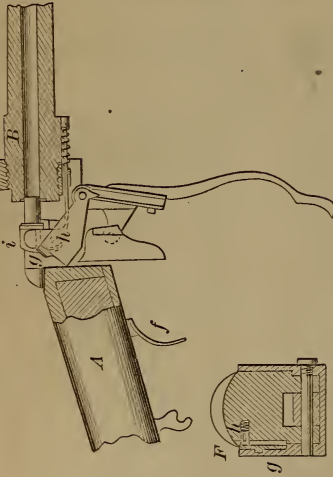
48224—P. Umholtz—*Coal Breaker.*



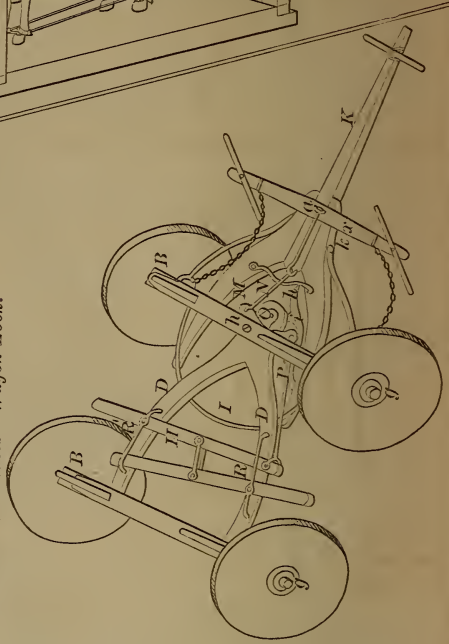
18225—F. Vogeli—*Horse Fastener.*



48227—H. H. Wolcott—*Fire Arm.*

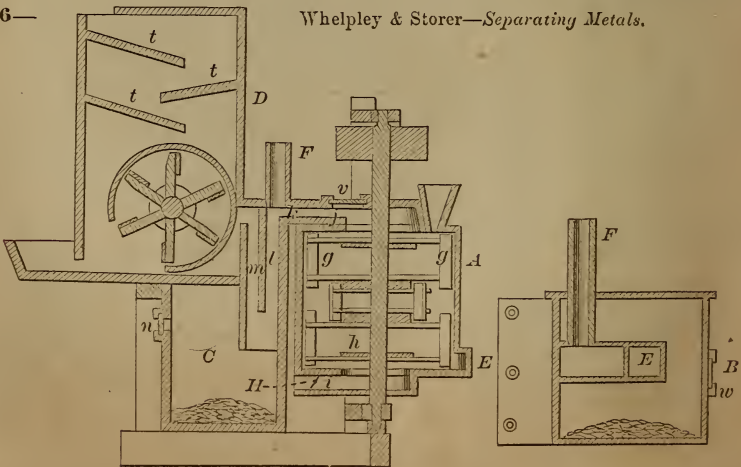


48228—J. F. Yates—*Wagon Lock.*

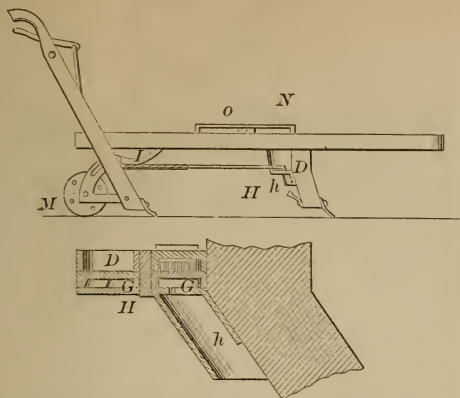


48226—

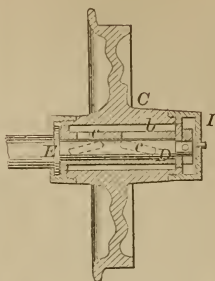
Whelpley & Storer—*Separating Metals.*



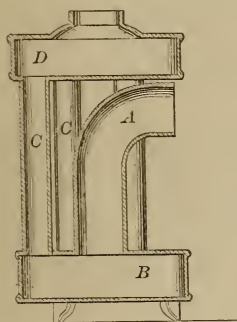
48229—E. M. Wright—*Corn Planter.*



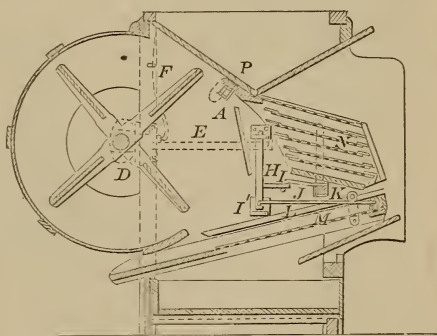
48230—W. Youmans—*Oiling Car Wheels.*



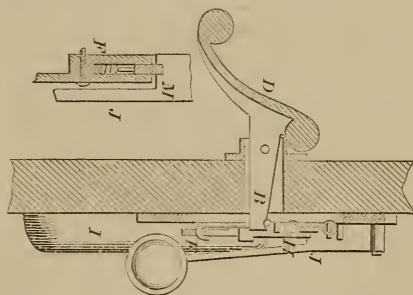
48231—D. M. Younkman—*Stove.*



48233—L. K. Ayres—*Grain Separator.*

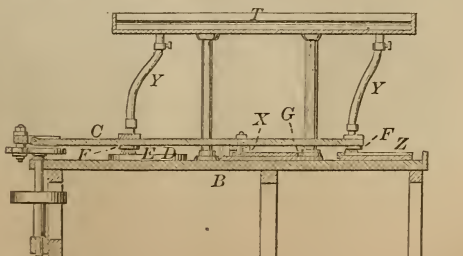


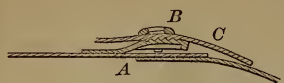
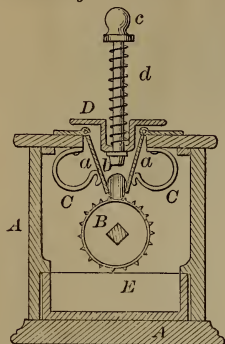
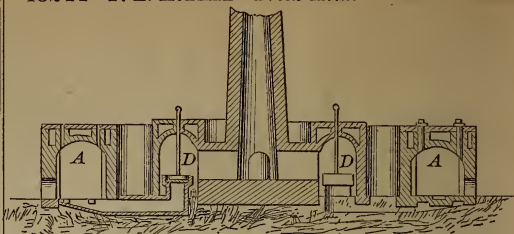
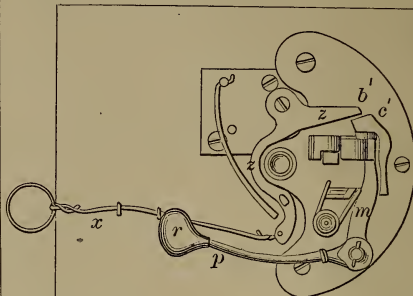
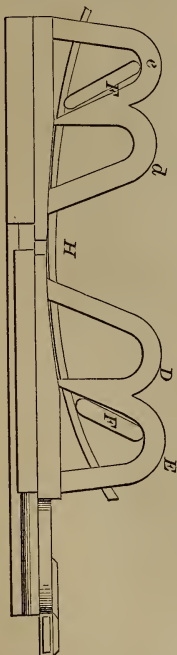
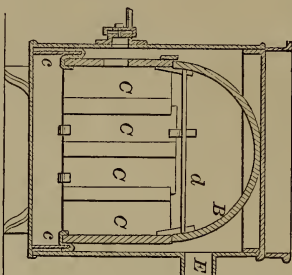
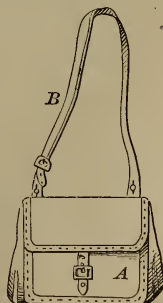
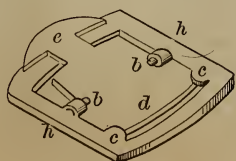
48232—F. C. Bolender—*Broom Head.*



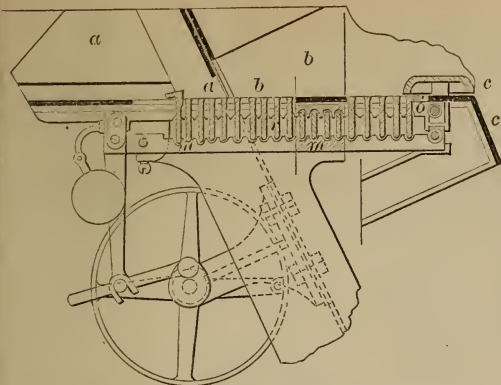
48234—A. G. Dexter—*Door Bell.*

48235—C. Faure—*Brushing Hats.*

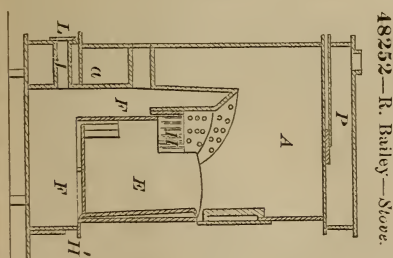
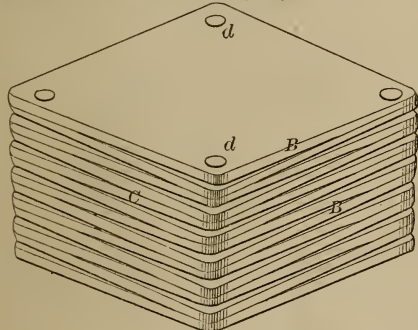


48236—C. B. Hatfield—*Buckle.*48237—J. Lofvendahl—*Nutmeg Grater.*48244—F. E. Hoffman—*Brick Kiln.*48242—A. Trumbull—*Door Bell.*48245—G. Huntington—*Wagon Tire.*48240—T. Scott—*Shoe.*48238—G. McKay—*Sole.*48246—A. Perrin—*Knapsack.*48241—D. L. Smith—*Buckle.*

48247—J. Zeh—Grate for Furnace.

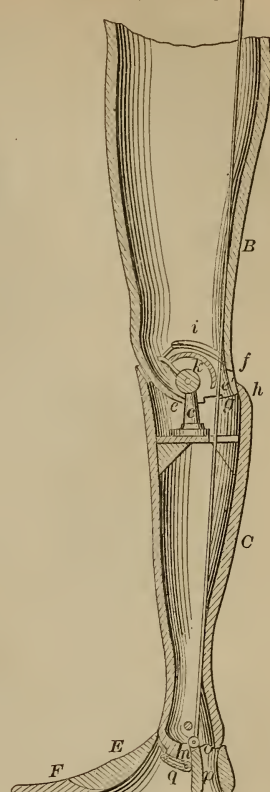


48250—T. F. Allyn—Car Spring.

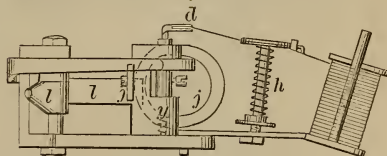


48252—R. Bailey—Sleeve.

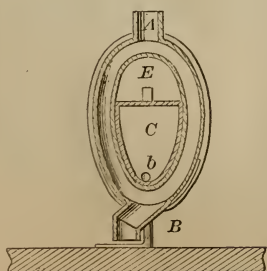
48251—J. J. Austin—Artificial Leg.



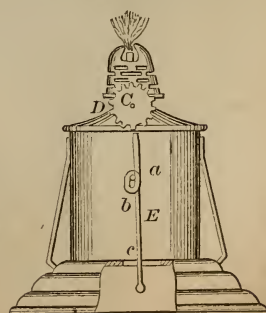
48248—J. J. Sibley—Sewing Machine.



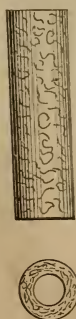
48253—J. Baumeister—Heater.



48254—H. W. Bleyer—Lantern Wick.



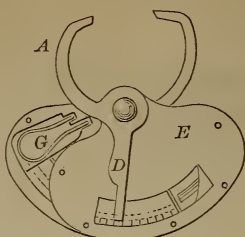
48249—E. Allen—Gun Barrel.



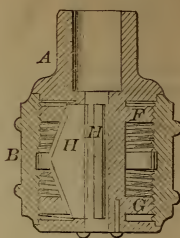
48255—E. Drell—Basket.



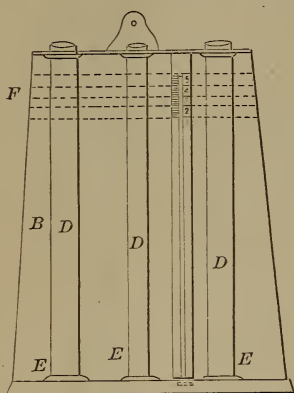
48257—C. E. Brown—Calipers.



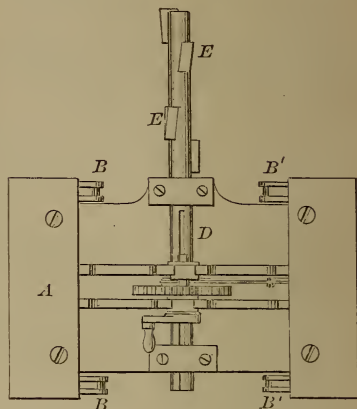
48259—S. B. Barritt—Lathe Chuck.



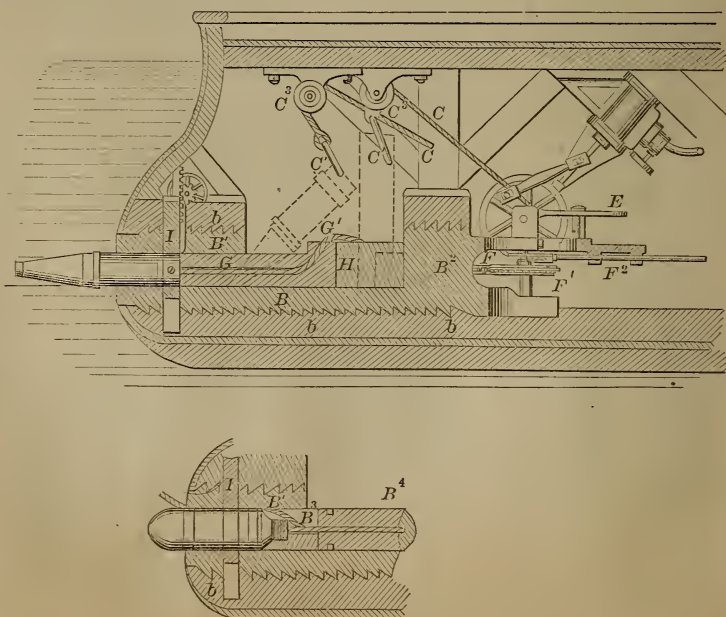
48256—C. S. Brown—Testing Milk.



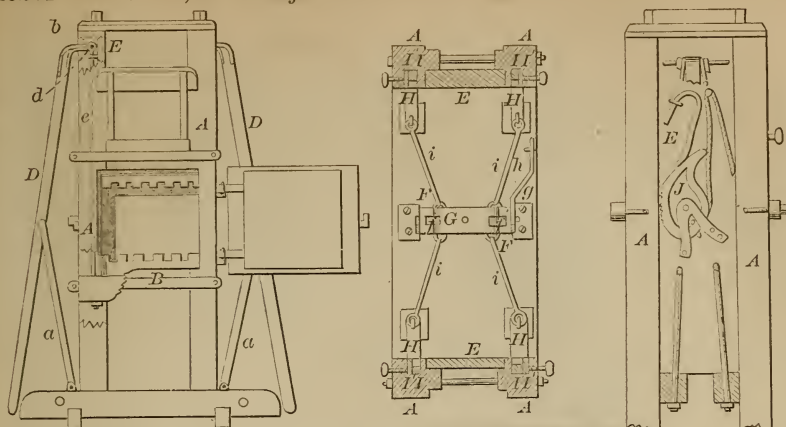
48258—A. Buchanan—Excavating Coal.



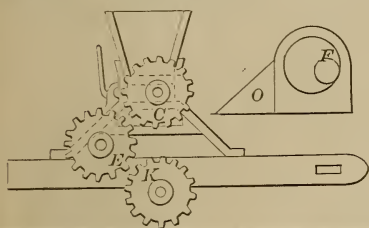
48260—E. R. Chamberlin—Torpedo Ram.



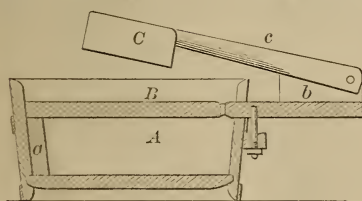
48261—F. F. Cornell, Jr.—*Baling Press.*



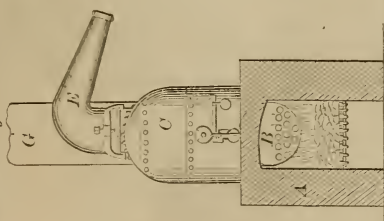
48262—J. B. Crowell—*Wheat Drill.*



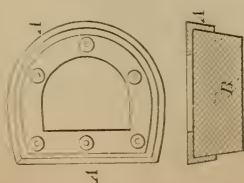
48263—E. Douglass—*Washing Machine.*



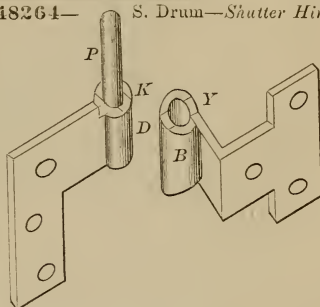
48265—A. Dubreuil—*Distilling Petroleum.*



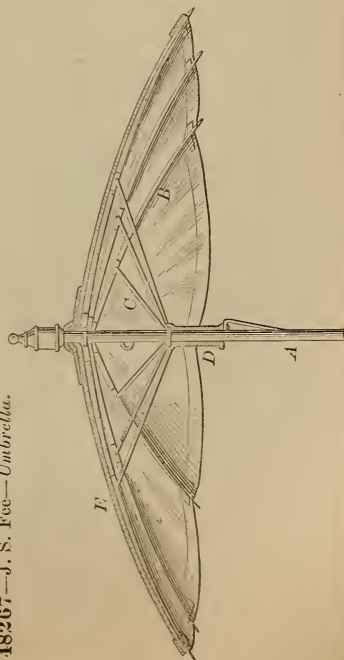
48266—E. Dunbar—*Boot Heel.*

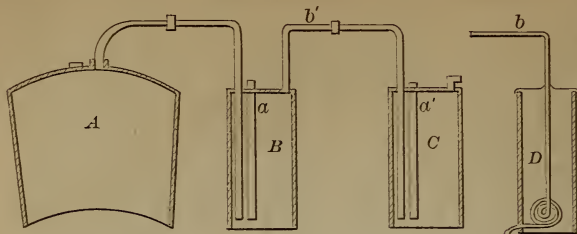
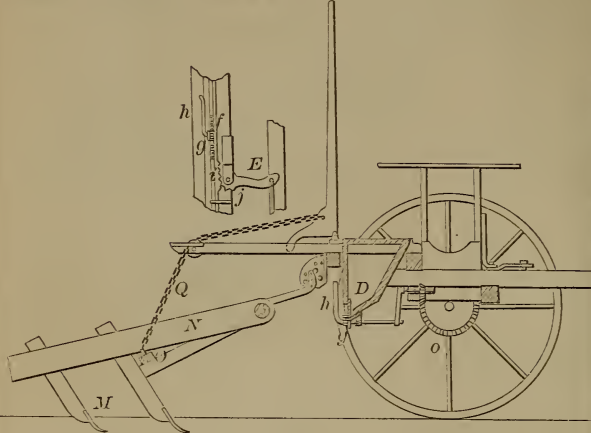
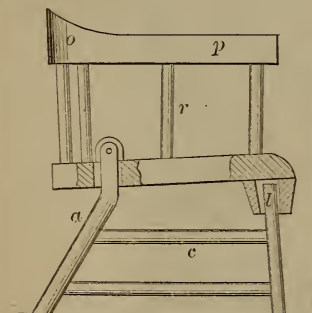
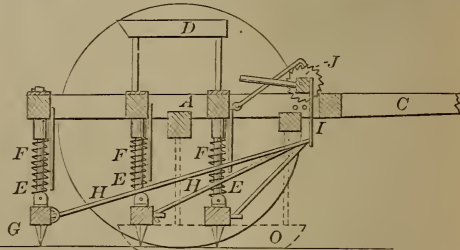
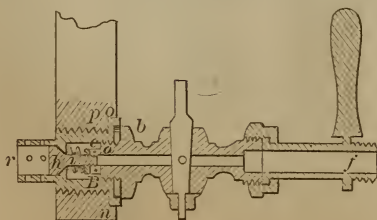
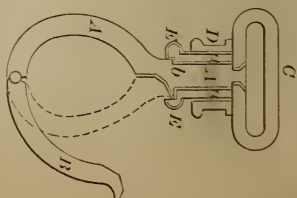
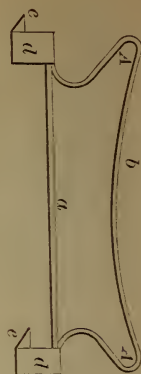
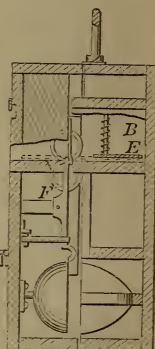


48264—S. Drum—*Shutter Hinge.*

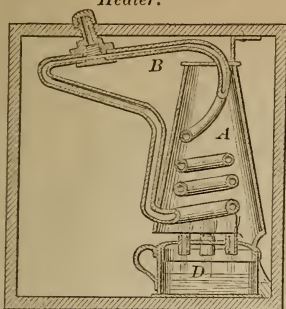


48267—J. S. Fee—*Umbrella.*

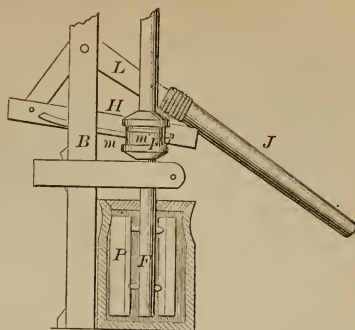


48268—L. D. Gale—*Preparing Coffee.*48269—T. A. Galt—*Seeding Machine.*48272—J. Habermehl—*Chair.*48271—E. S. Gillies—*Cultivator.*48273—A. Hallowell—*Beer Faucet.*48275—E. Hamilton—*Soup Hook.*48270—N. Gates—*Car Seat.*48274—E. Hamburjer—*Ticket Box.*

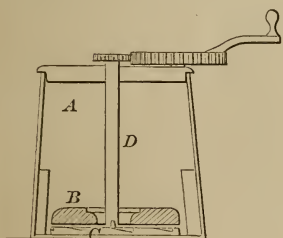
48276—Hargrave & King—*Mercurial Heater.*



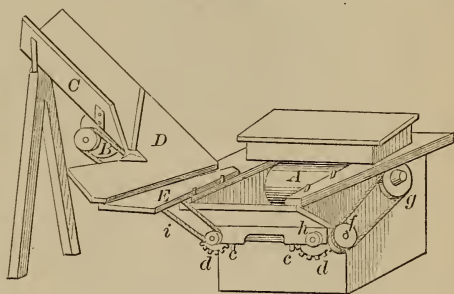
48277—G. Hart—*Churn.*



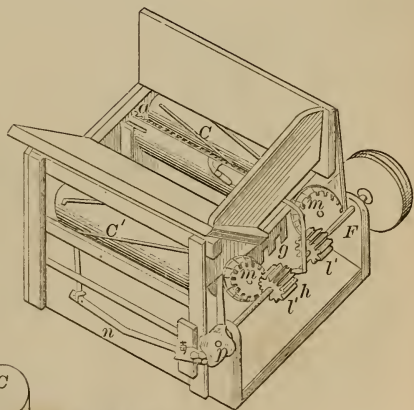
48278—E. F. Holloway—*Churn.*



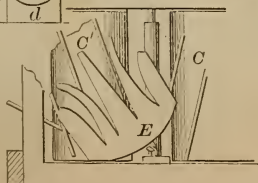
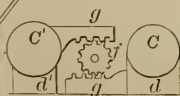
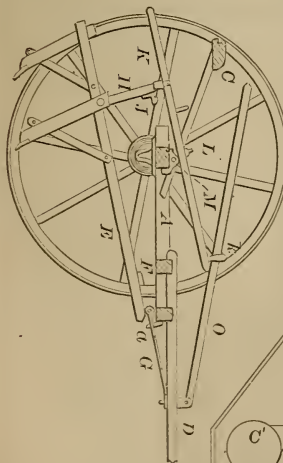
48279—W. U. Hoover—*Band Cutters for Threshing Machines.*



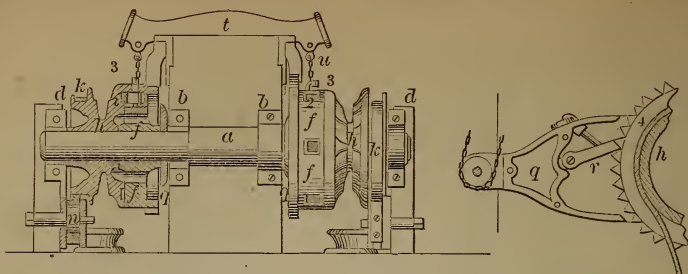
48280—W. U. Hoover—*Band Cutting Machine.*



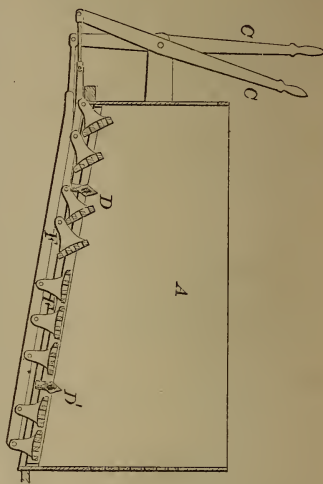
48281—Holtz & Enoch—*Multiplier.*



48282—P. H. Jackson—Windlass.



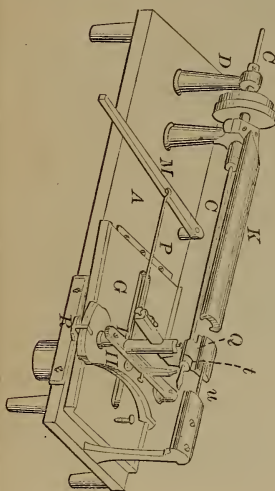
48286—E. H. Jones—Boiler Grate.



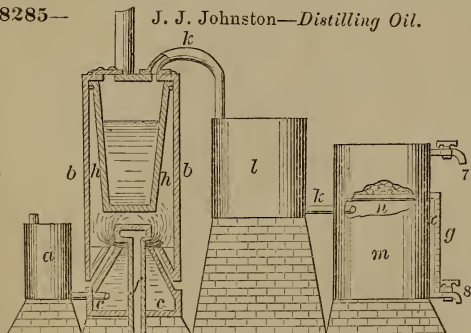
48287—B. F. Joslyn—Fire Arm.



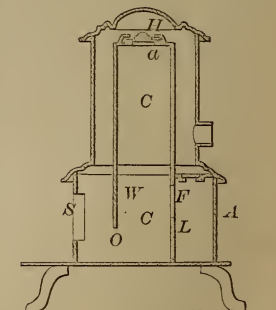
48283—C. Jilson—Wire Pointing.



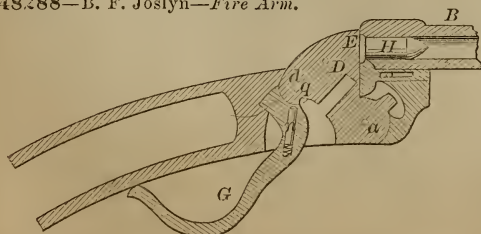
48285—J. J. Johnston—Distilling Oil.



48289—J. W. Lane—Stove.



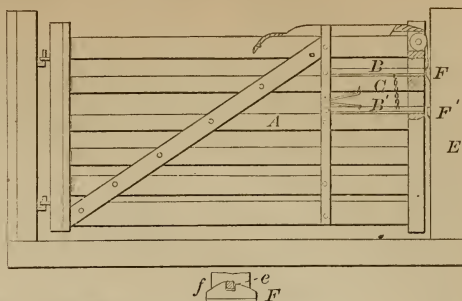
48288—B. F. Joslyn—Fire Arm.



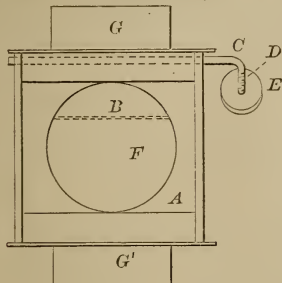
48290—E. B. Larchar—*Intagliotype Plate.*



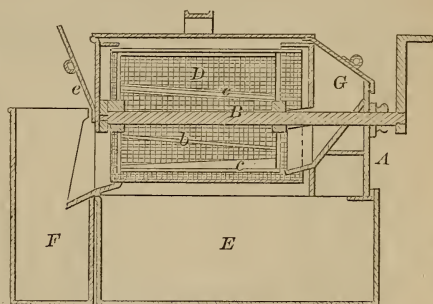
48292—J. Leonard—*Gate Latch.*



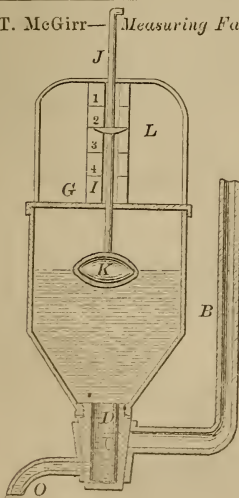
48291—C. H. Lavis—*Damper.*



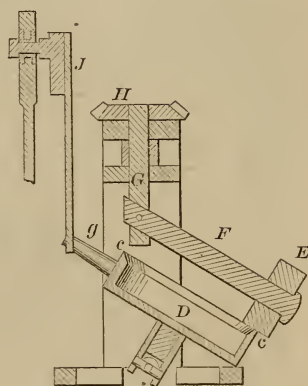
48293—S. C. Maine—*Ash Sifter.*



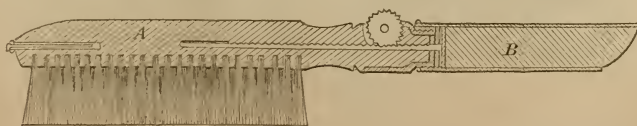
48296—T. McGirr—*Measuring Faucet.*



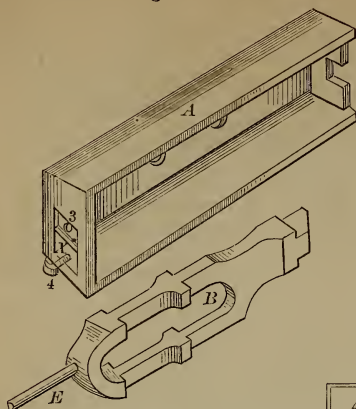
48294—E. Matteson—*Mechanical Movement.*



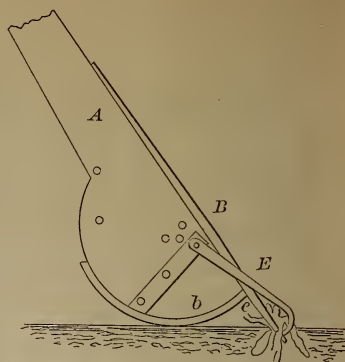
48295—J. Mayer—*Hair Brush.*



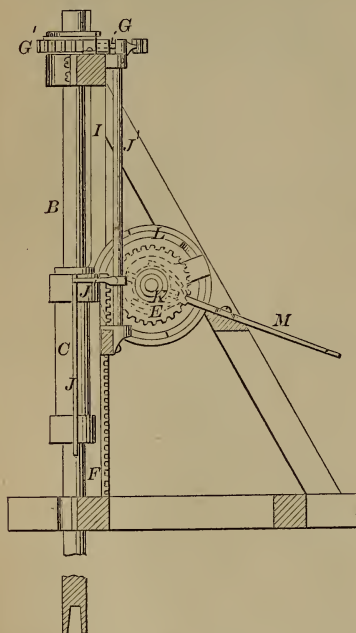
48297—M. McGonnigle—Door Bolt.



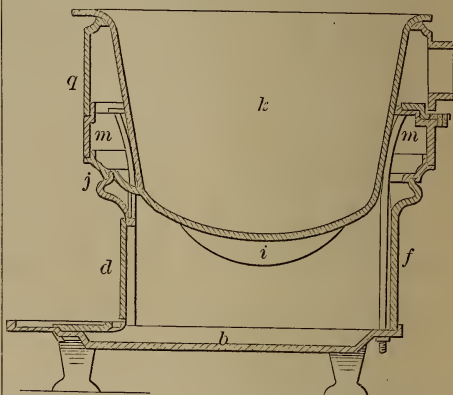
48298—C. R. Moffett—Grubbing Machine.



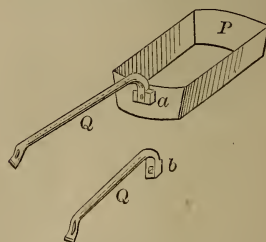
48301—G. Mulhaupt—Rock Drill.



48302—J. Murdock—Furnace.



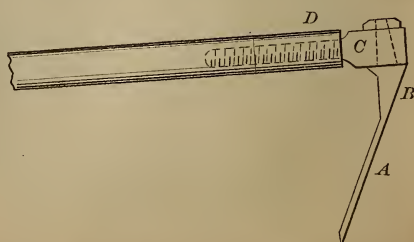
48299—J. Morrison, Jr.—Ash Pan.



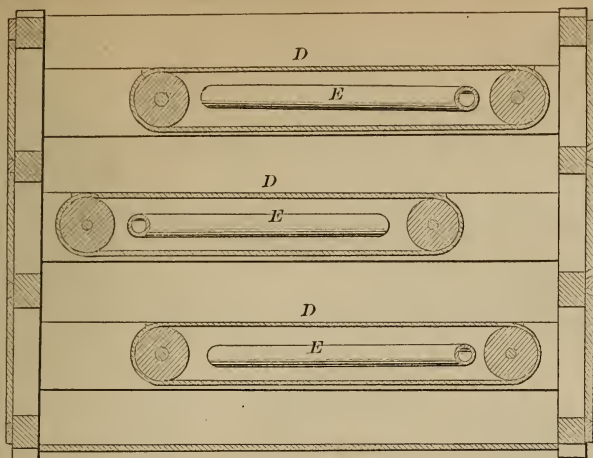
48300—E. D. Moyer—Bottle Stopper.



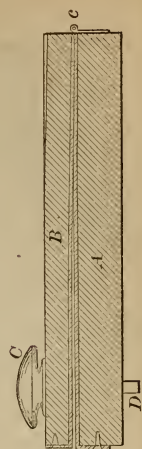
48304—J. Naugle—Hoe.



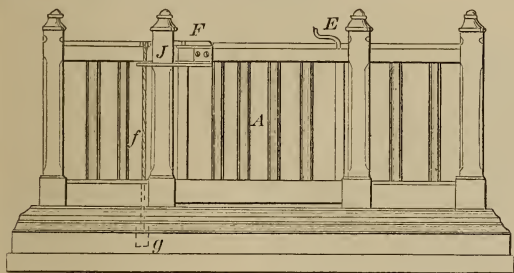
18306—W. H. Pease—*Tobacco Dryer.*



18305—J. Palmer—*Knife Polisher.*



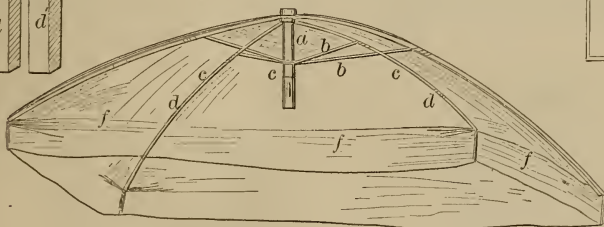
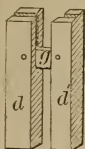
18309—Raymond & Miller—*Fence Gate.*



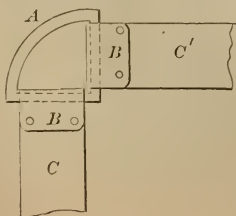
18310—E. Robbins—*Carriage.*



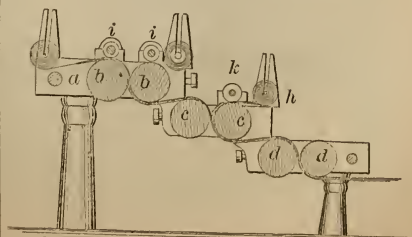
18308—A. W. Price—*Musquito Bar.*



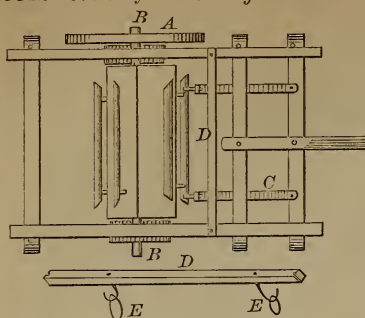
18307—J. H. Plumstead—*Halter Clasp.*



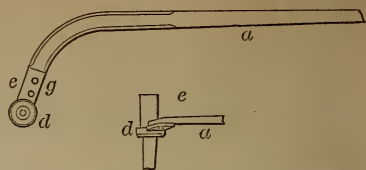
18311—A. Robinson—*Roofing Material.*



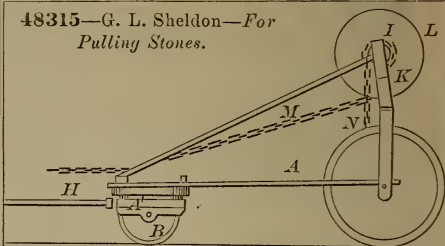
48312—J. B. Ryder—Cutting Stalks.



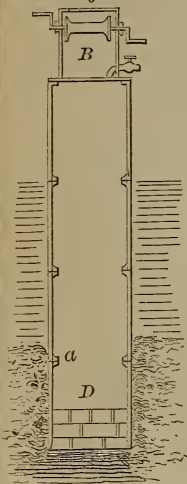
48313—B. E. Sampson—Carriage Thill.



48315—G. L. Sheldon—For Pulling Stones.

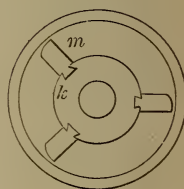
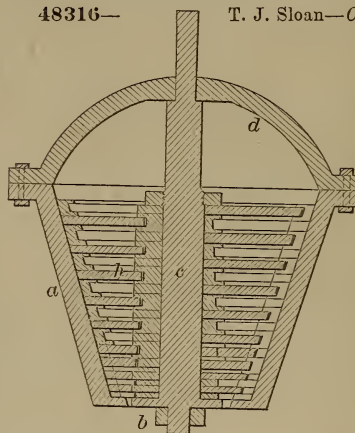


48317—E. W. Smith—Bridge Pier.

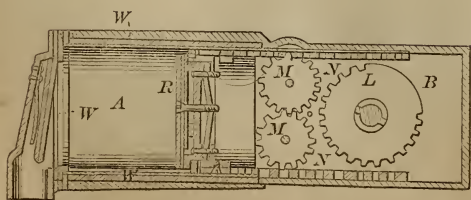
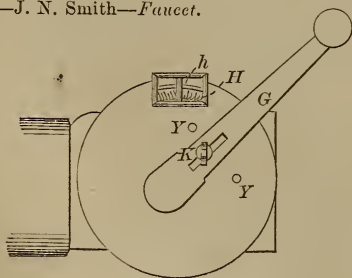


48316—

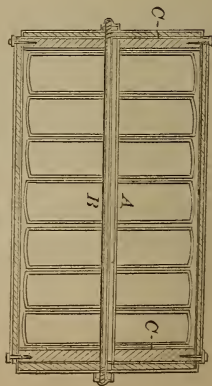
T. J. Sloan—Cutting Vegetables.



48318—J. N. Smith—Faucet.

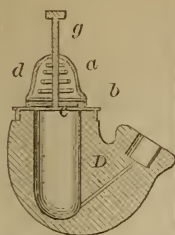


48319—F. N. Stearns—Packing Grindstones.

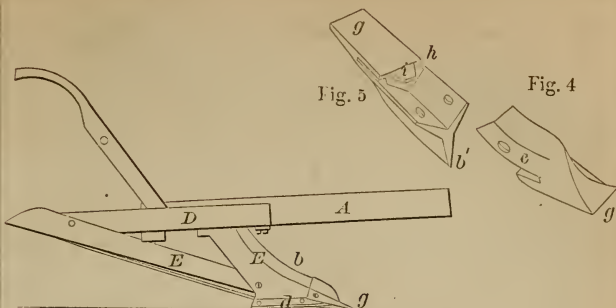


48320—

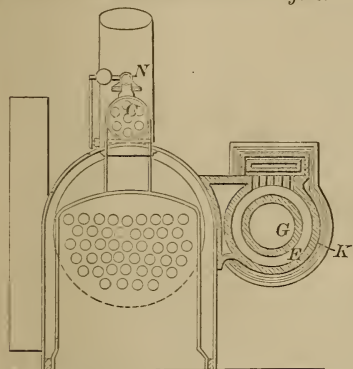
J. D. Stewart—
Tobacco Pipe.



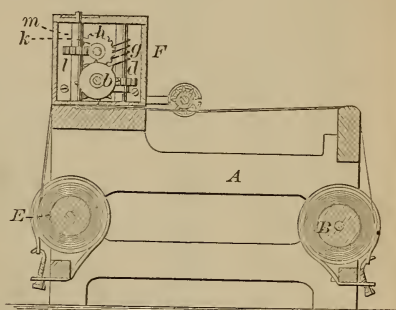
48324—H. M. Teasdale—Cultivator.



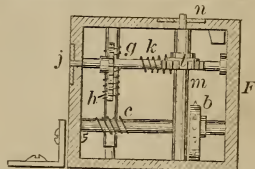
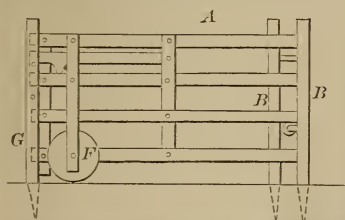
48321—O. M. Stillman—Steam Engine.



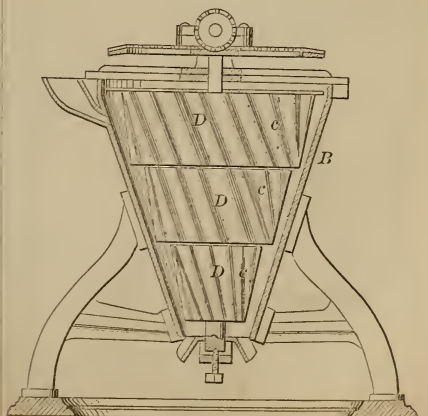
48325—C. C. Temple—Loom.



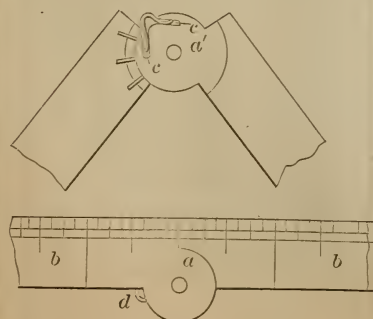
48322—W. Tallman—Gate.



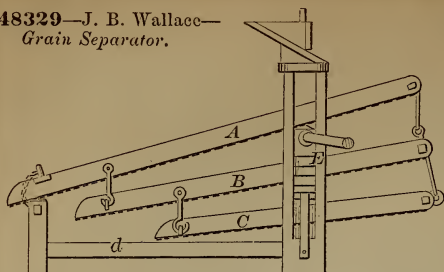
48326—J. H. Thompson—Grain Huller.



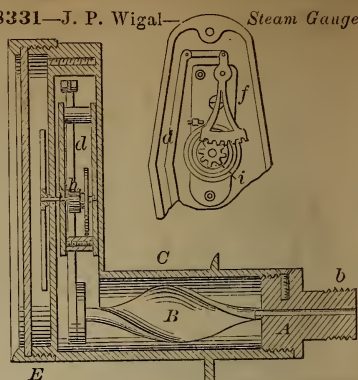
48327—J. A. Traut—Folding Rule.



48329—J. B. Wallace—
Grain Separator.



48331—J. P. Wigal—
Steam Gauge.

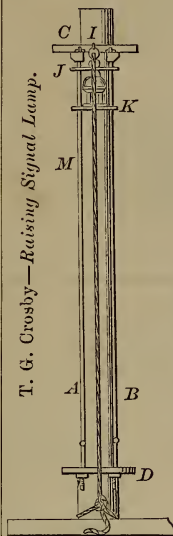


48333—



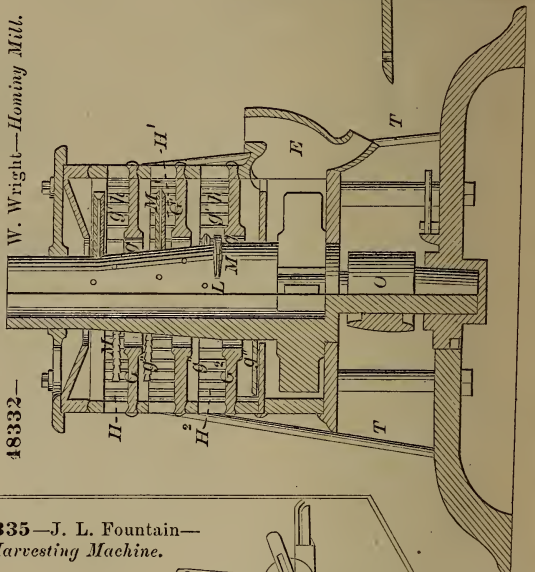
R. Wyatt—Fire Escape.

48334—

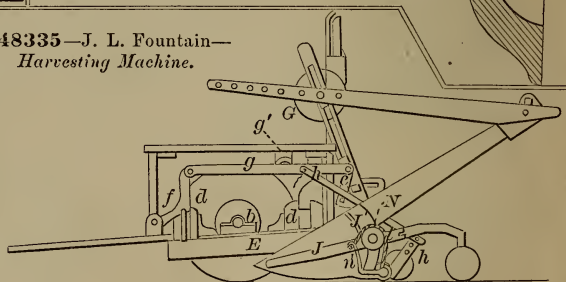


T. G. Crosby—Raising Signal Lamp.

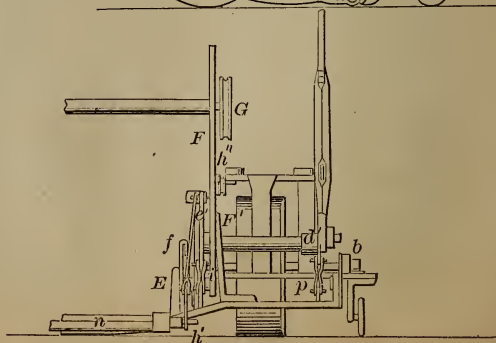
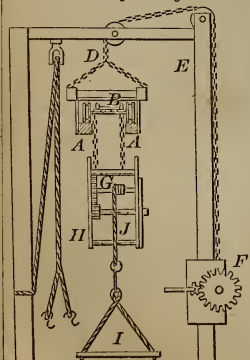
48332—
W. Wright—Honing Mill.



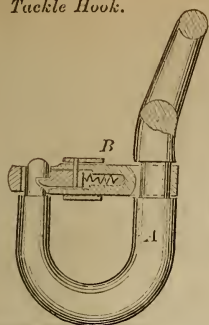
48335—J. L. Fountain—
Harvesting Machine.



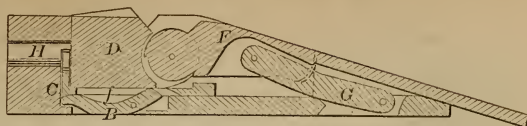
48330—H. A. Whitney—
Unloading Freight.



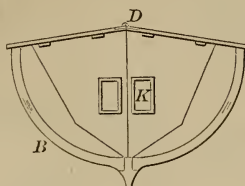
48336—R. Frisbie—
Tackle Hook.



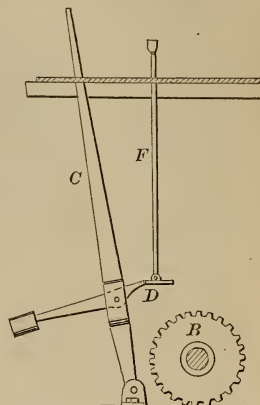
48337—J. Gray—Fire Arm.



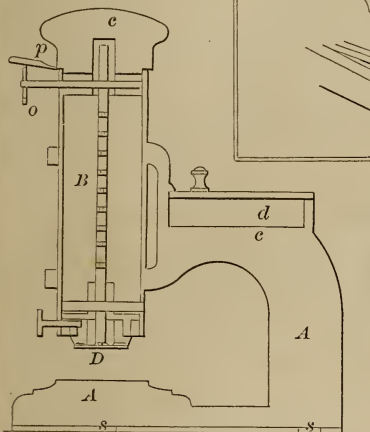
48342—Laning & Fletcher—
Folding Boat.



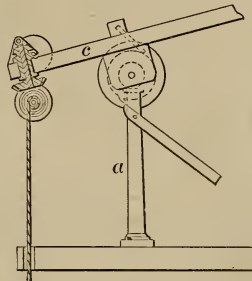
48339—A. Kieffer—Screw Engine.



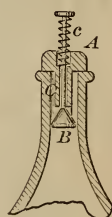
48338—Hudson & Hardy—
Hand Stamp.



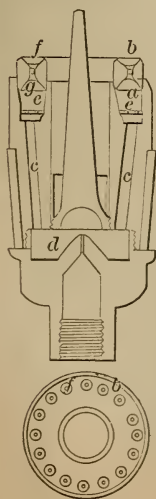
48343—T. J. Lovegrove—
Boring Well.



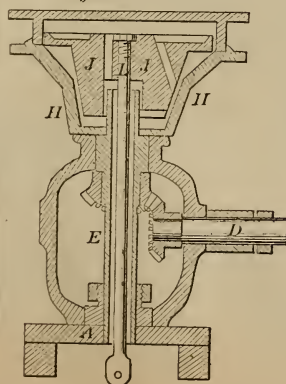
48341—
W. Klorme—
Bottle Stopper.



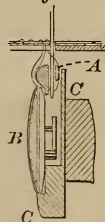
48340—C. H. Johnson—
Gas Burner.



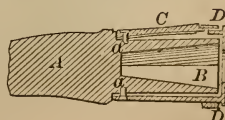
48344—T. J. Lovegrove—
Engine Governor.



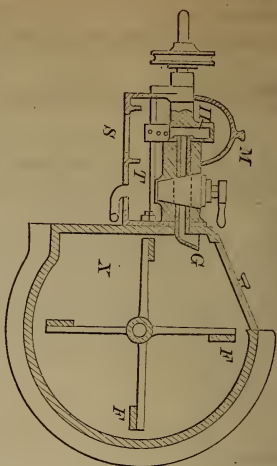
48345—J. McCloskey—
Sewing Machine.



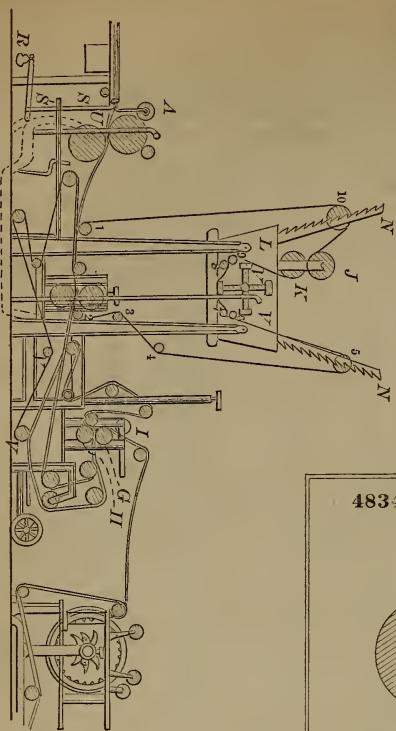
48346—M. V. Nobles—
Bit Stock.



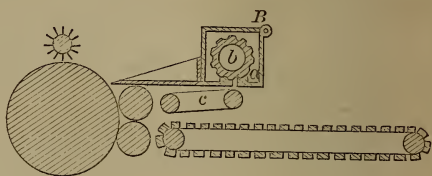
48351—M. J. Roberts—*Oiling Wool.*



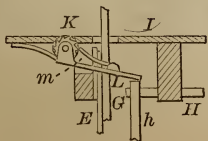
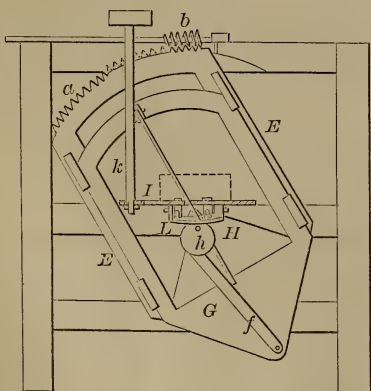
48347—J. Seamlan—*Paper Making.*



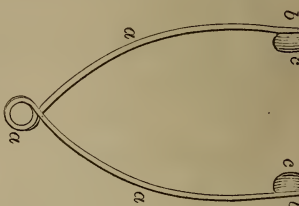
48348—J. Shinn—*Oiling Wool.*



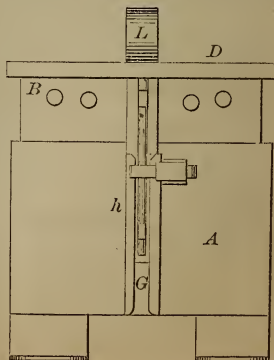
48349—Wright & Molyneux—*Saw Mill.*



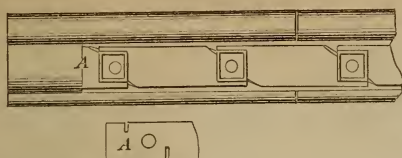
48350—F. Fearon—For
Deadening Sound.



48352—A. J. Sax—*Disinfecting Air.*



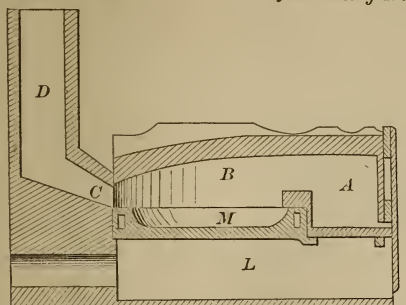
48353—H. N. Armstrong—*Stop Washer.*



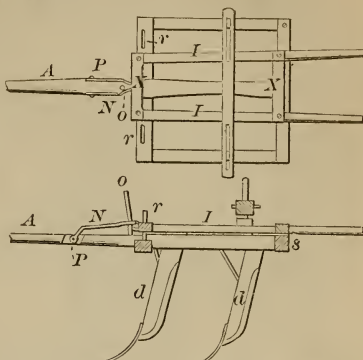
48356—W. S. Barnes—*Neck Tie Clasp.*



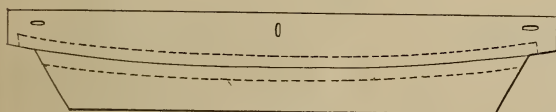
48355—C. D. Baker—*Furnace for Boiling Iron.*



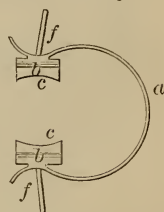
48358—J. T. Bever—*Cultivator.*



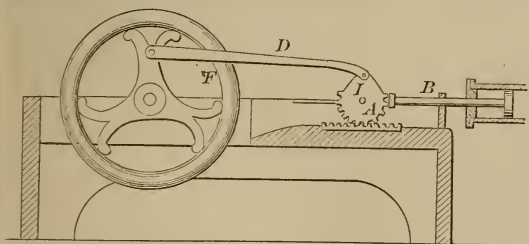
48359—G. F. Bigelow—*Paper Collar.*



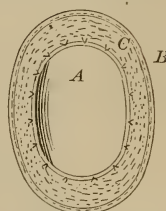
48354—G. Asmus—*Lamp Chimney.*



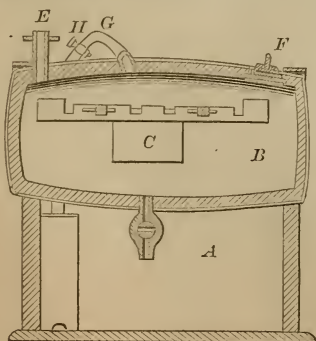
48360—F. Brewer—*For Converting Motion.*



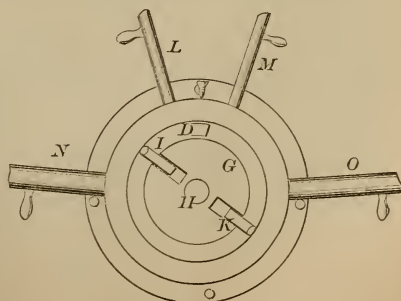
48357—J. P. Beatty—*Hat.*

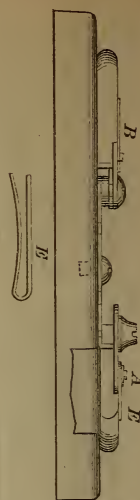
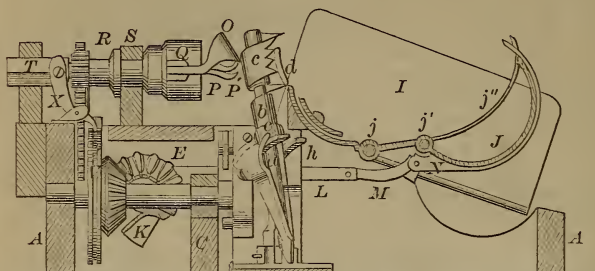
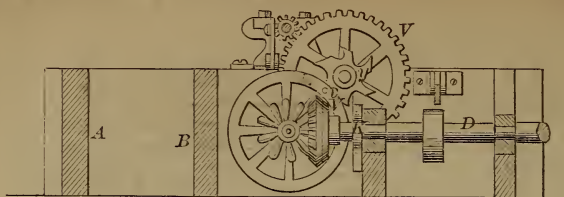
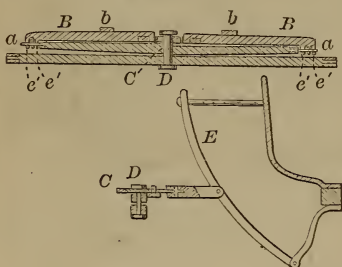
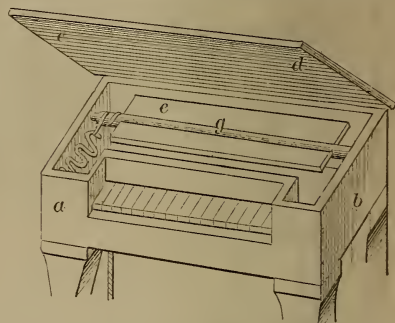
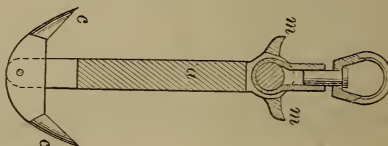
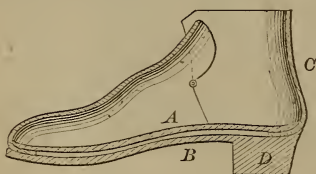
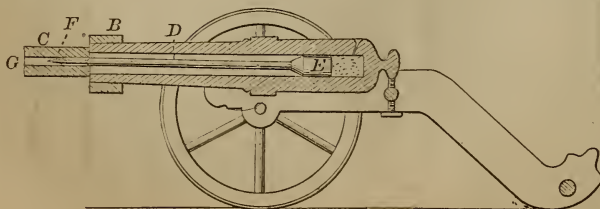


48361—Brewer & Wimer—*Tanning.*

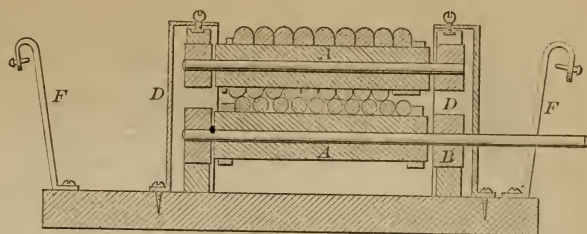


48362—H. T. Briggs—*Steam Engine.*

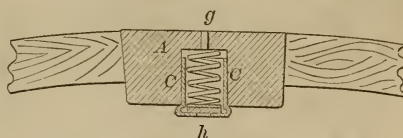


48363—R. D. Brown—*Harvester.*48369—G. F. Clemens—*Sewing Machine.*48364—E. Calderwood—*Attaching Traces to Whiffletrees.*48366—R. W. Carpenter—*Tremolo Attachment.*48368—E. Chesterman—*Boot and Shoe.*48370—G. Coffin—*Anchor.*48371—W. Cousins—*Ordnance Projectile.*48373—R. P. Cowles—*Carriage Knob.*

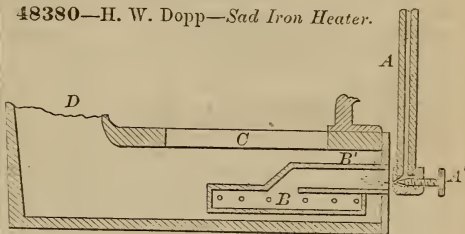
48375—J. Danner—*Washing Machine.*



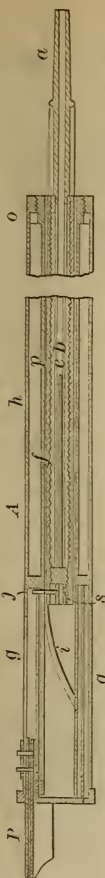
48377—A. G. Day—*Bung.*



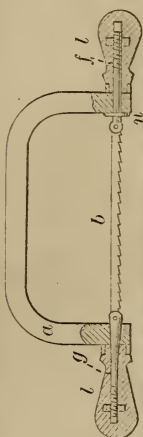
48380—H. W. Dopp—*Sad Iron Heater.*



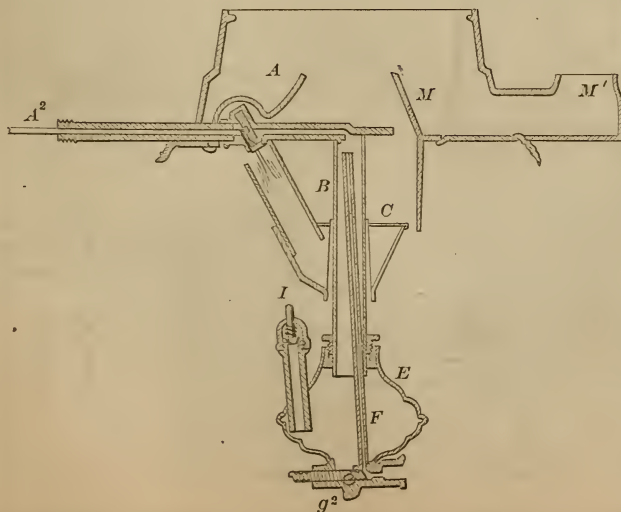
48374—F. W. Cox—*Pencil Case.*



48376—A. Dawes—*Saw.*



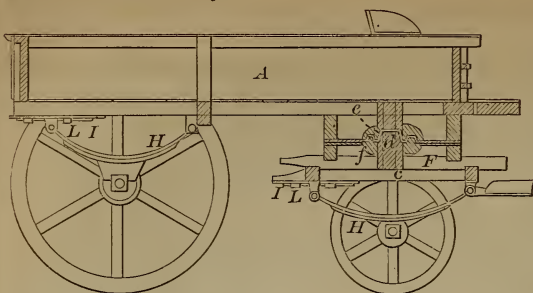
48379—H. W. Dopp—*Hydro-Carbon Burner.*



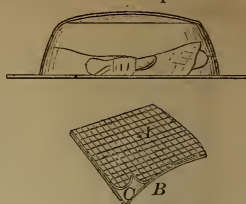
48378—
N. Dodge—
Pump.



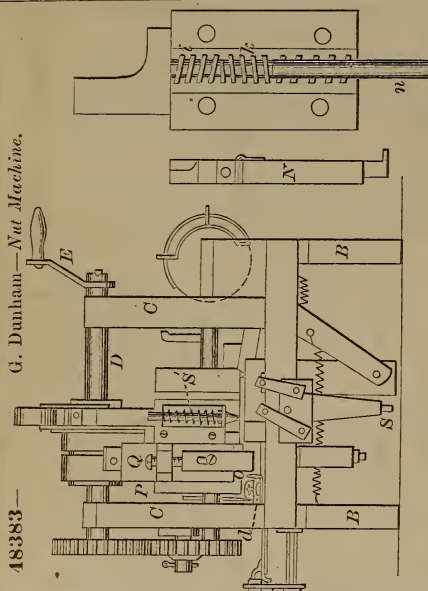
18381—J. Dowd—*Wagon.*



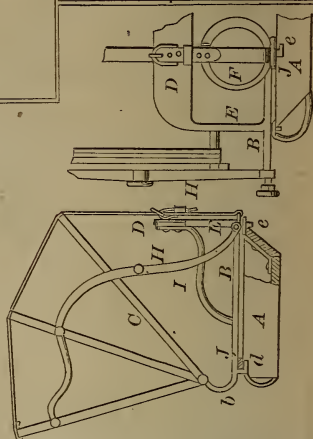
48384—R. Dunlap—*Hat.*



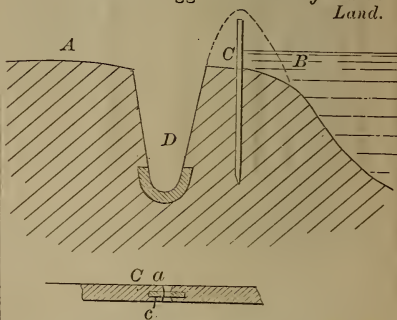
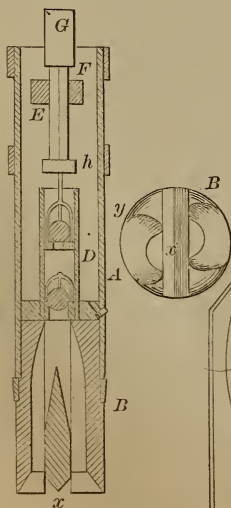
G. Dunham—*Nut Machine.*



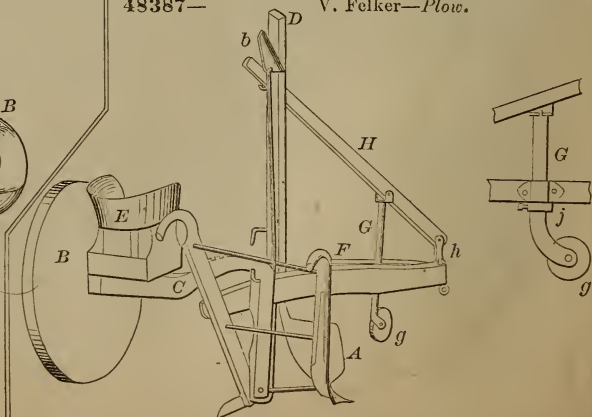
48386—J. Enders—*Carriage Top.*



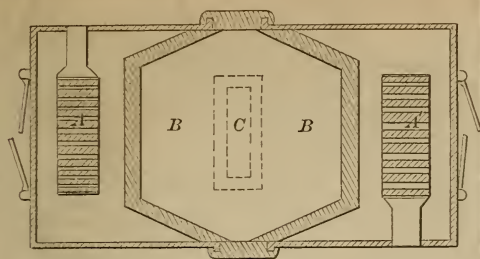
48382—S. B. Driggs—*Reclaiming Marsh Land.*

48388—W. A. Fisher—*Boring Wells.*

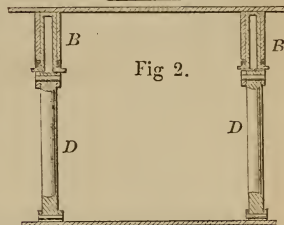
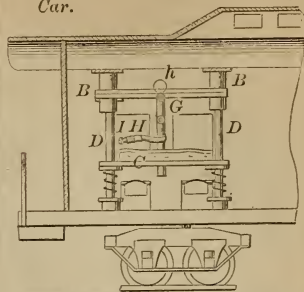
48387— V. Felker—*Plow.*



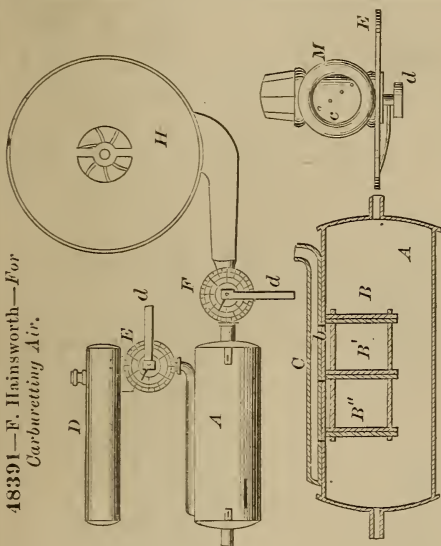
48390—W. & J. Groves—Puddling Furnace.



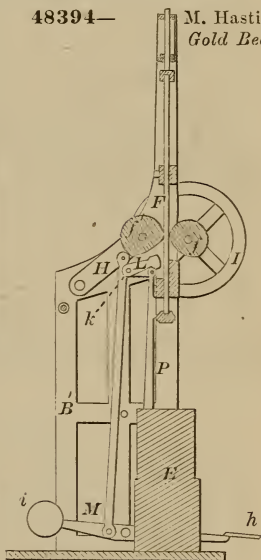
18393—C. T. Harvey—Sleeping Car.



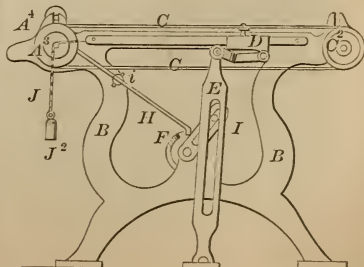
48391—F. Hainsworth—For Carburetted Air.



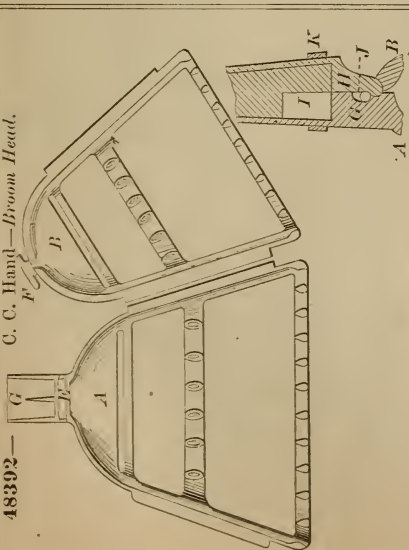
48394—M. Hastings—Gold Beating.

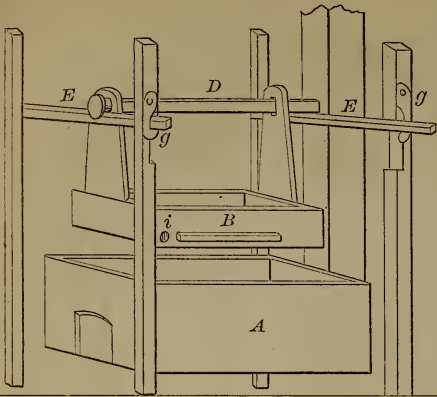
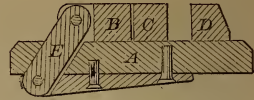
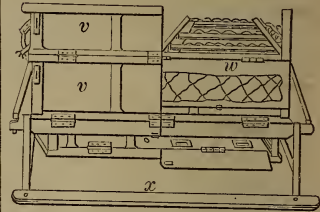
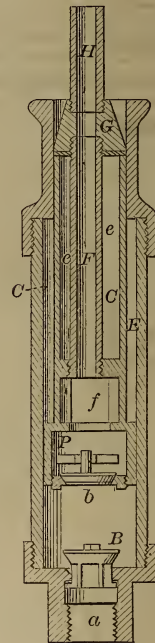
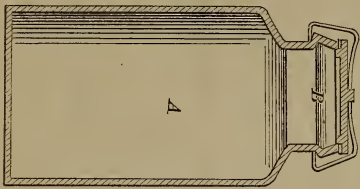
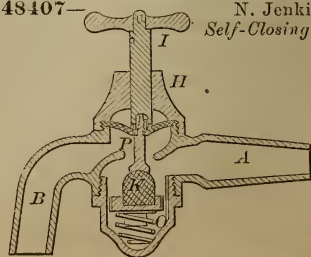
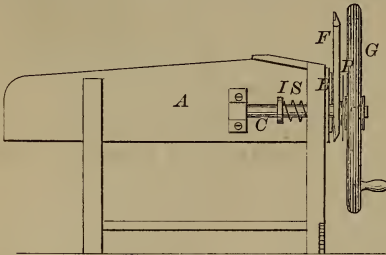
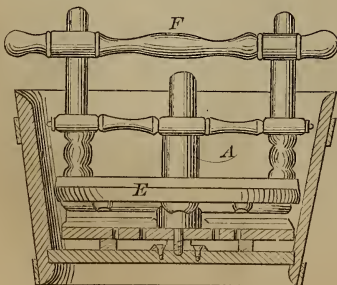


48395—J. Hatch—Cutting Paper.

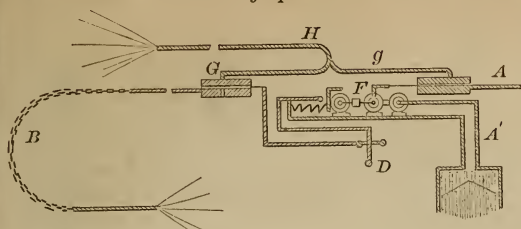


48392—C. C. Hand—Broom Head.

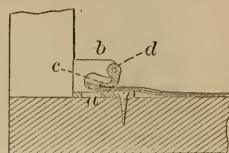


48397—S. Heaton—*Sorghum Evaporator.*48400—G. G. Hickman—*Railroad Frog.*48401—B. Howard—*Ambulance.*48401—B. S. Hill—*Pump.*48407—N. Jenkins—*Self-Closing Cock.*48399—R. Hemingway—*Fruit Jar.*48403—E. F. Holloway—*Straw Cutter.*48402—W. R. Hill—*Washing Machine.*

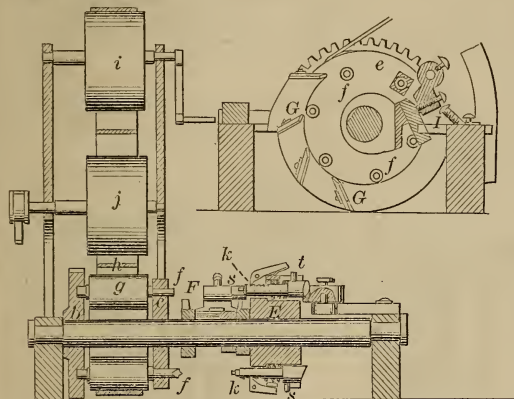
48408—R. E. House—*Telegraph.*



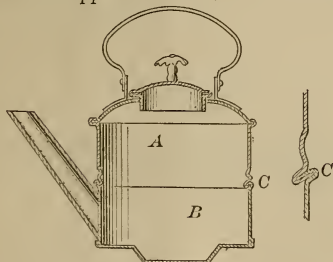
48410—J. O. Jones—*Carpet Fastener.*



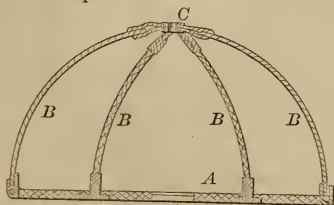
48409—H. K. Jones—*Lathe.*



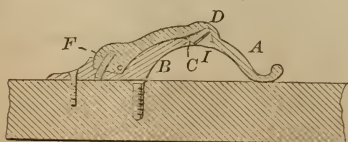
48411—A. Kipp—*Tea Kettle.*



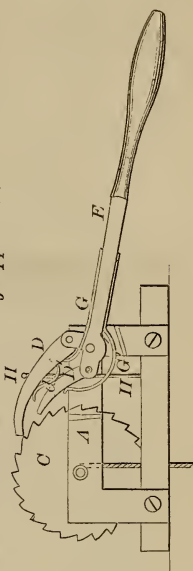
48412—A. Komp—*Hat Frame.*



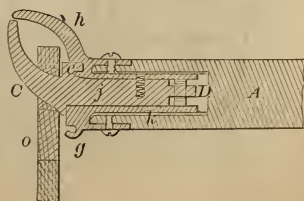
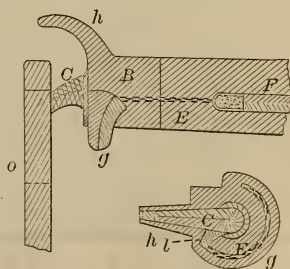
48415—J. H. Littlefield—*Breeching Hook.*



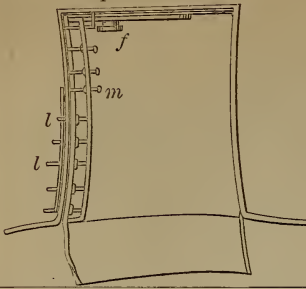
48414—I. J. Lancaster—*Hoisting Apparatus.*



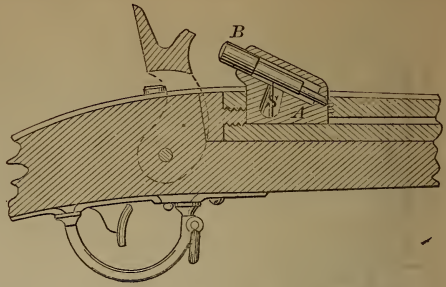
48416—J. H. Littlefield—*Whiffletree.*



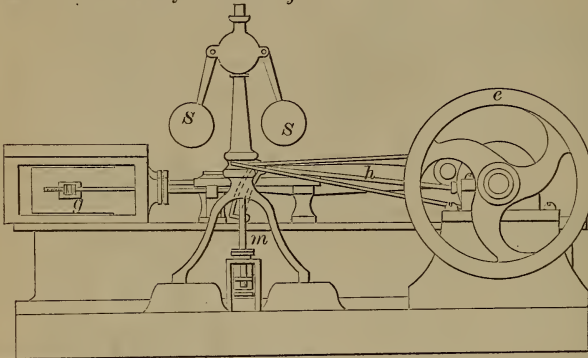
48417—T. H. Lowerré—Attaching
Crape to Hats.



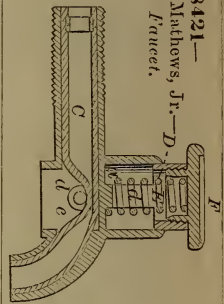
48423—E. Maynard—Fire Arm.



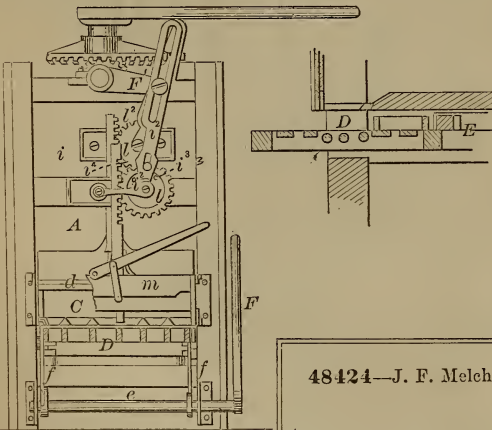
48418—J. W. Maloy—Steam Engine.



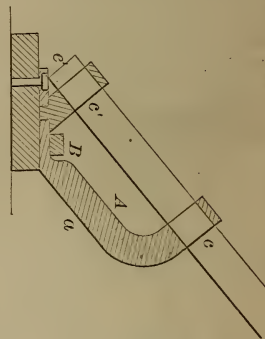
48421—
J. Matthews, Jr.—D-
Faucet.



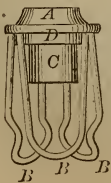
48419—H. Martin—Brick Machine.



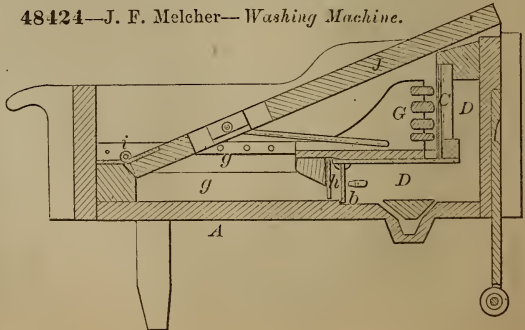
48420—M. H. Malsinger—Bracket.



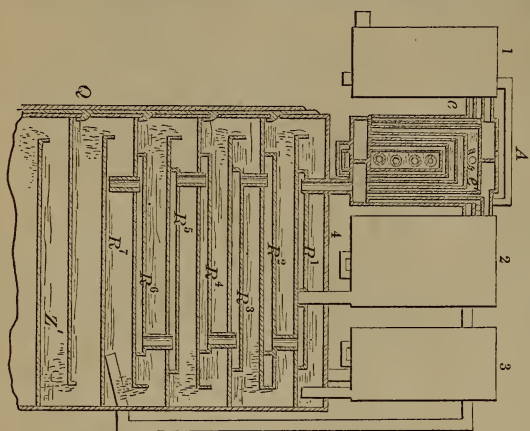
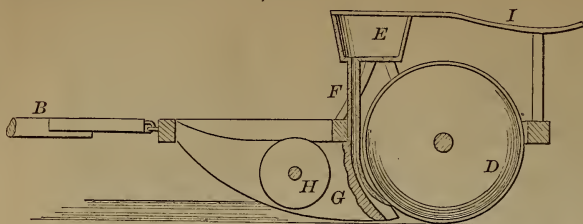
48422—J. Matthews, Jr.—
For Opening Bottles.



48424—J. F. Melcher—Washing Machine.

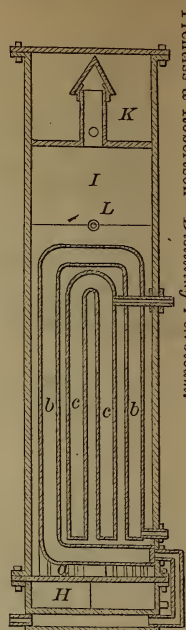


48433—W. B. Porter—Seed Drill.



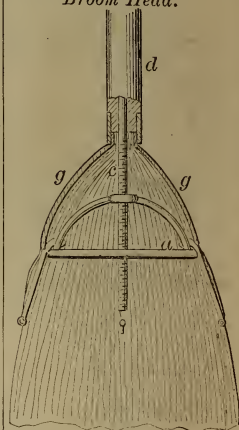
48436—Preniss & Robertson—Distilling Petroleum.

48435—

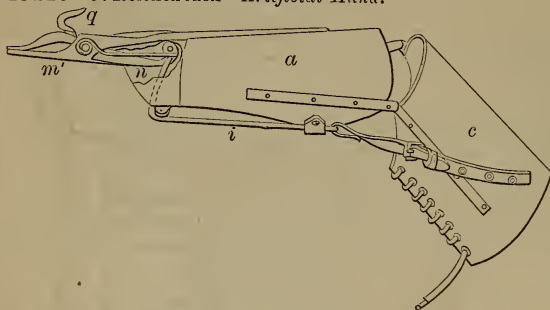


Preniss & Robertson—Distilling Petroleum.

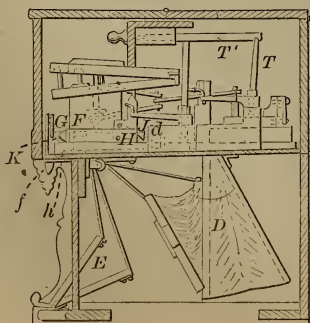
48434—T. H. Powers—Broom Head.



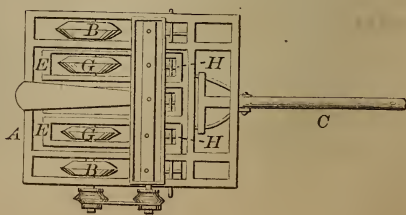
48440—J. Reichenbach—Artificial Hand.



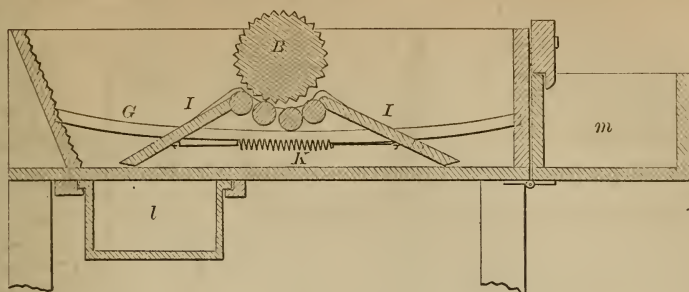
48437—P. J. Puetz—Melodeon.



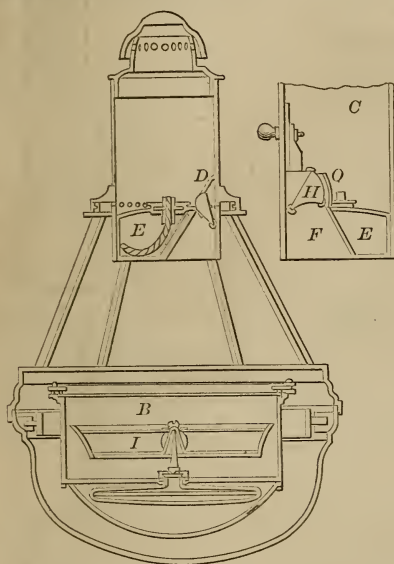
48441—W. Rice—Wheat Drill.



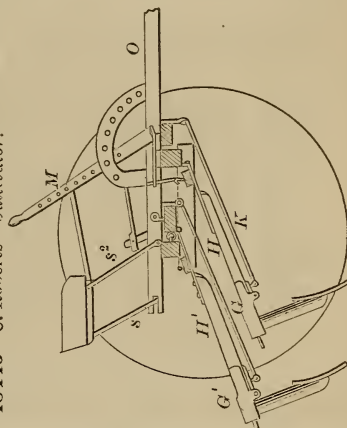
48442—M. A. Richardson—*Washing Machine.*



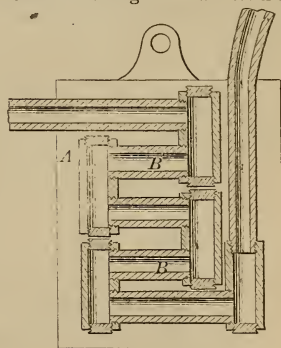
48443—E. S. Ritchie—*Binnacle.*



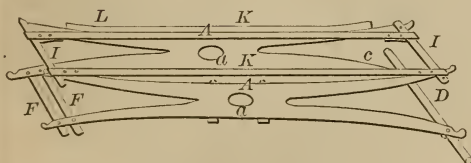
48445—C. Roberts—*Cultivator.*



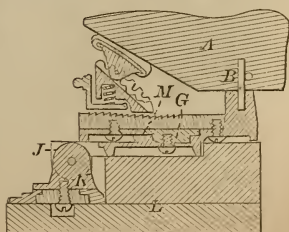
48446—J. Rogers—*Furnace Door.*



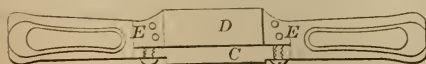
48444—A. J. Ritter—*Carriage Spring.*

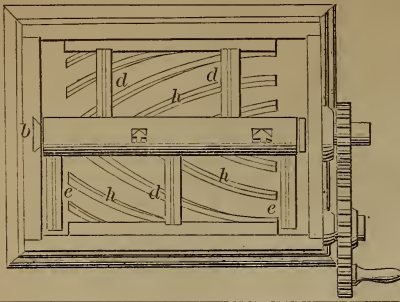
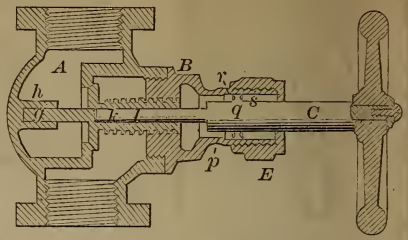
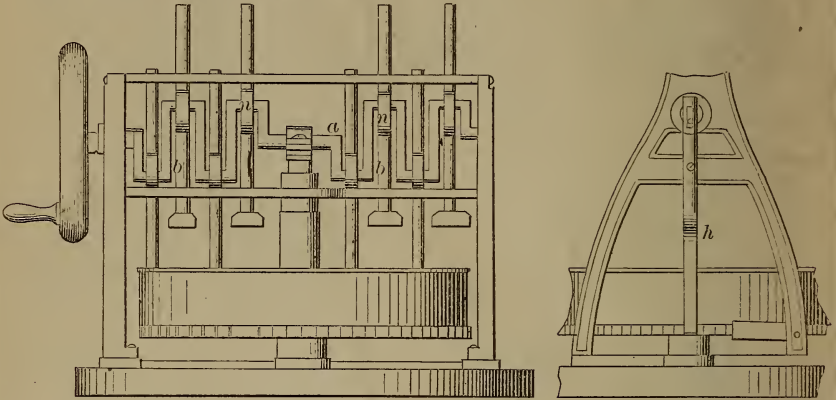
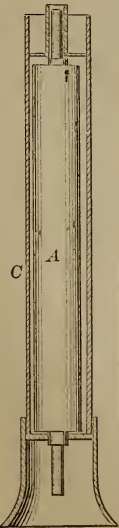
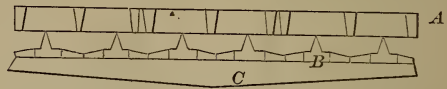
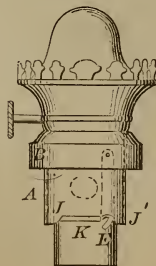
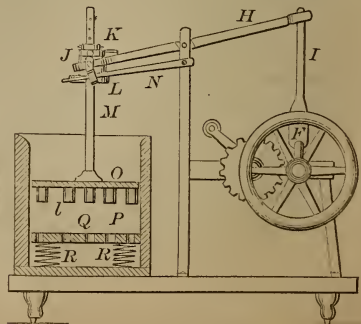


48447—J. G. Ross—*Jack for Shoes.*

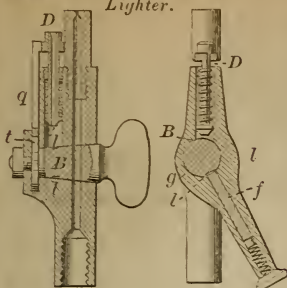



48448—J. G. Ross—*Heel Shave.*

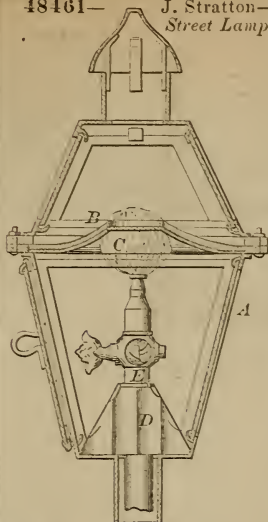


48449—J. F. Sanborn—*Churn.*48452—Sargent & Towne—*Steam Cock.*48451—Sargent & Chesley—*Meat Chopping Machine.*48453—
C. Sentell—
Printer's Roll.48454—S. L. Simpson—*Ruler.*48455—G. L. Smith—*Furnace Grate.*48450—H. & J. Sangster—
Burner.48458—L. S. Starrett—*Washing Machine.*

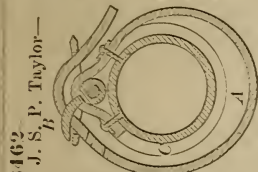
48159—H. B. Stockwell—*Gas
Lighter.*



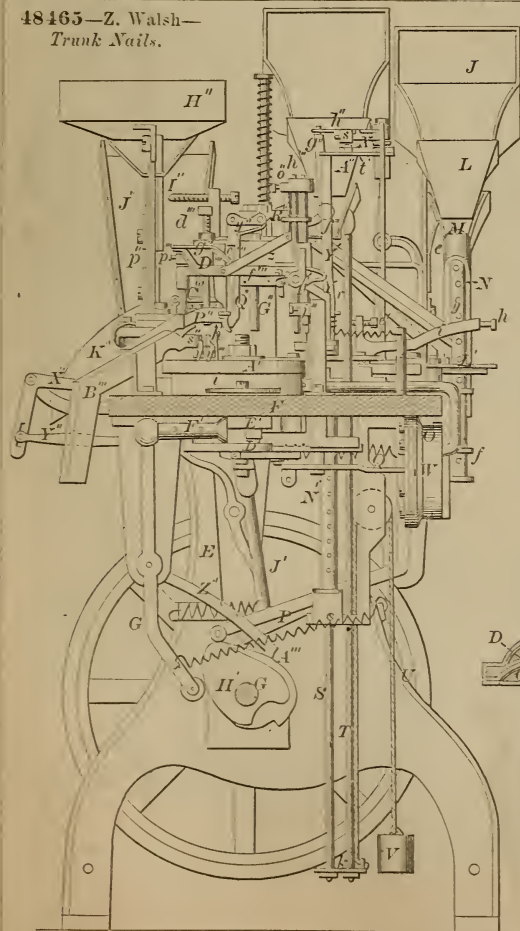
48461—  J. Stratton—
Street Lamp.



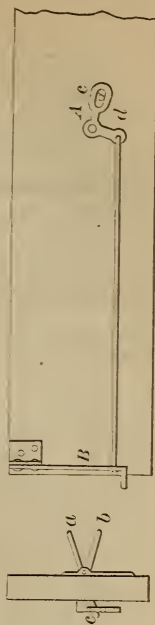
48162
J. S. P. Taylor—
Carbine Socket.



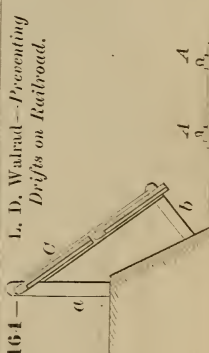
48465—Z. Walsh—
Trunk Nails.



18463—W. Toshach—Sash Catch.



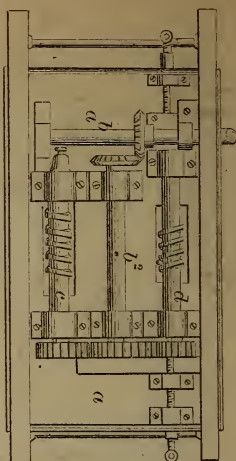
18461—A L. D. Walrad—Preventing Drifts on Railroad.



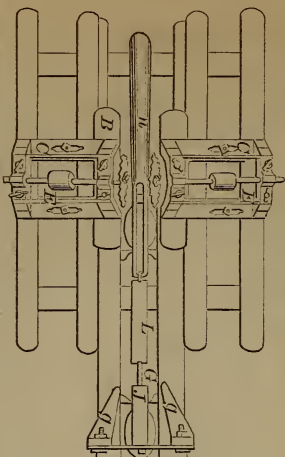
48466—II. Waters—Guide for Roller.



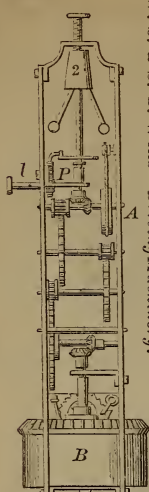
48472.—G. W. Wicks—*Roller Die.*



48468—P. *Verum—State Machine.*



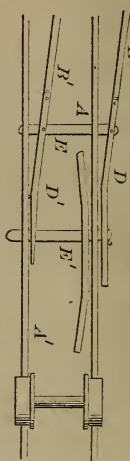
W. S. & S. B. Wells—*Driving Machinery.*




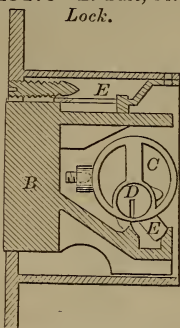
48473—A. Winterburn—Reaping Machine.



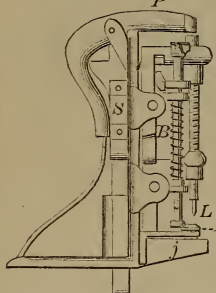
48470—W. Wharton, Jr.—Railroad Switch.



48475—L. Yale, Jr.—
 *Lock.*

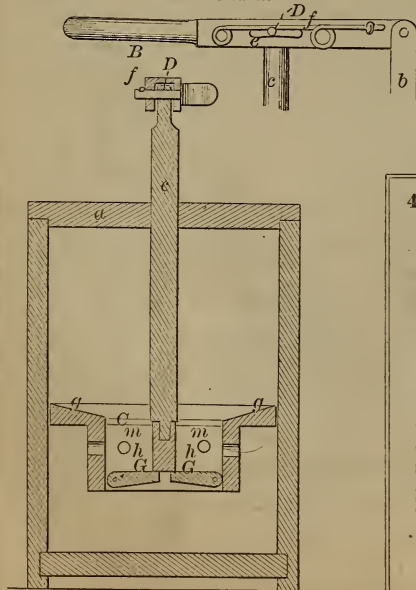


Punching Leather.

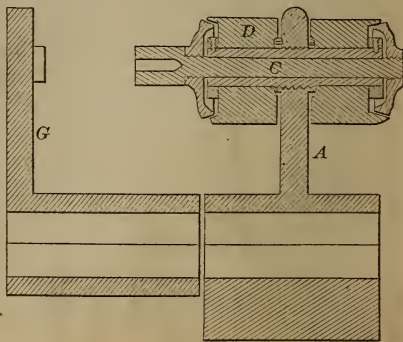


48474—L. H. Wood—

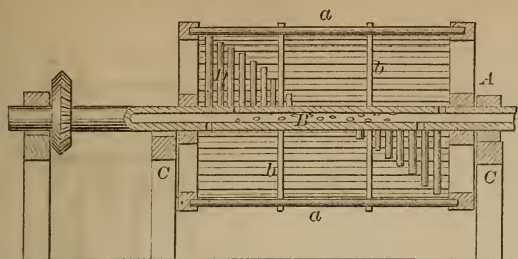
48469—I. M. West—*Churn.*



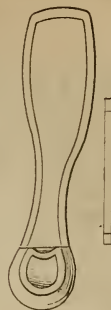
48476—L. Yale, Jr.—*Screw Tap.*



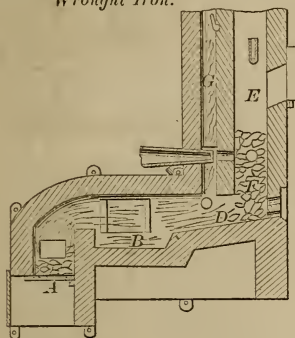
48477—F. W. Bacon—*Vegetable Washer.*



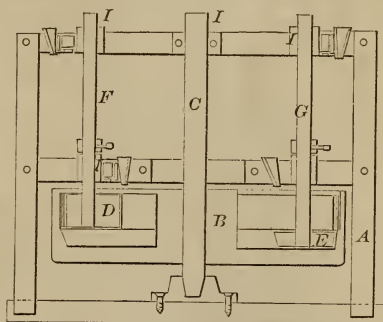
48481—J. W. Coburn—*Water-proof Sole.*



48478—H. Boardman—*Manufacture of Wrought Iron.*



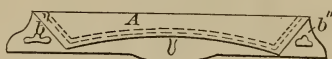
48480—S. W. Bullock—*Amalgamating Pan.*



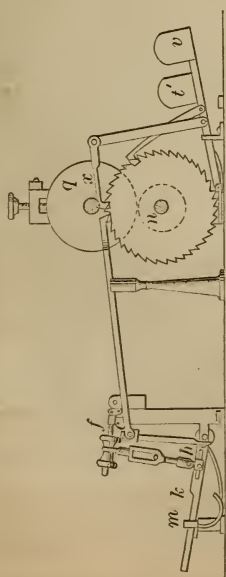
48482—E. A. Cooper—*Snap Hook.*



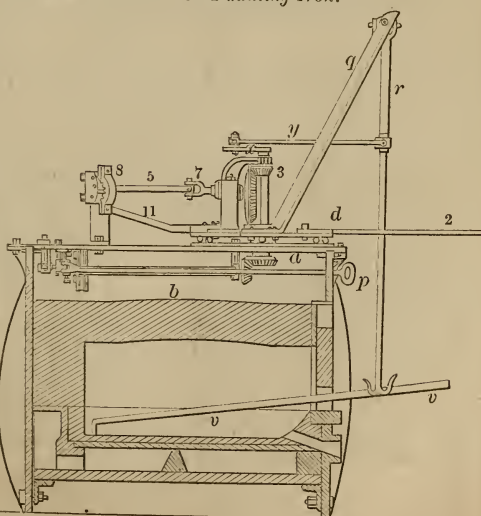
48484—H. B. Fairman—*Button Hole.*

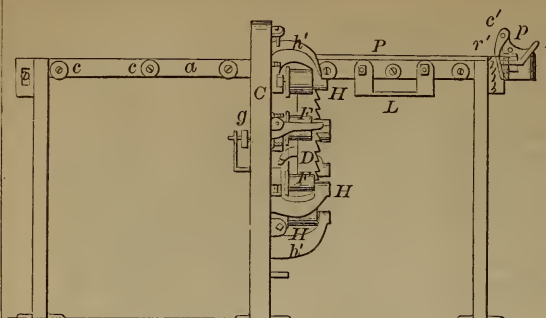
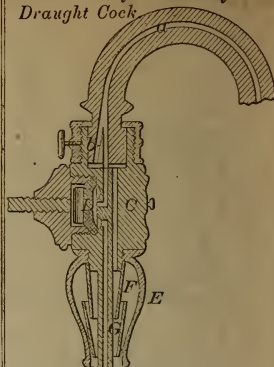
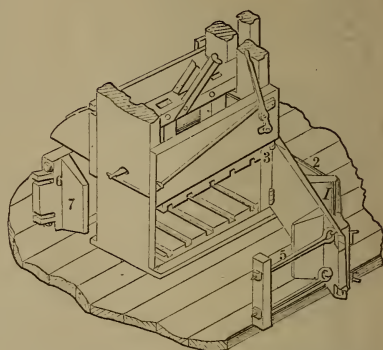
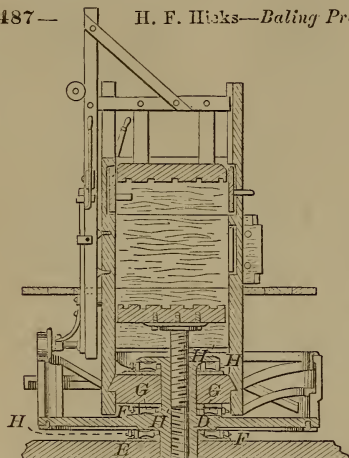
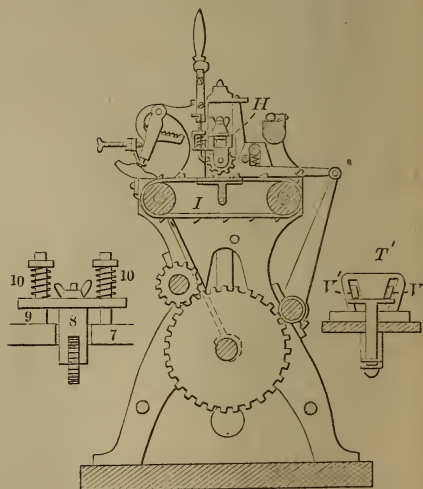
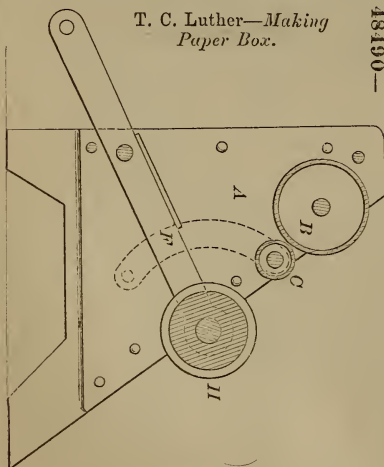


48479—L. Bradley—*Perforating Paper for Telegraphs.*

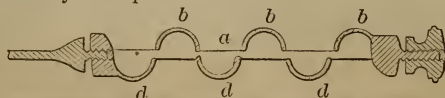


48485—J. Griffiths—*Puddling Iron.*

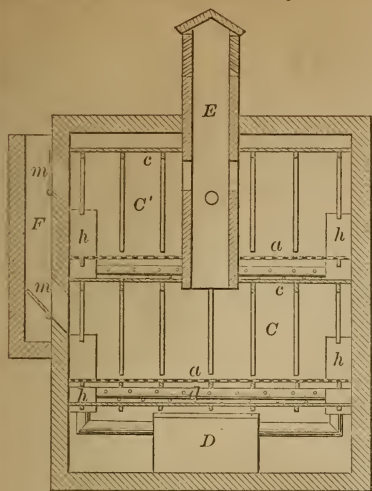


48486—G. R. Hay—*Stave Machine.*48489—Hoyt & Murray—*Draught Cock.*48487—H. F. Hicks—*Baling Press.*48488—G. J. Hill—*Paging Machine.*T. C. Luther—*Making Paper Box.*

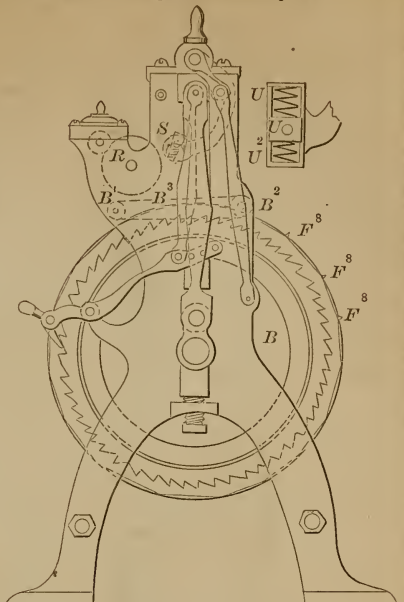
48490—

48491—N. R. Ramsey—*Damper.*

48192—W. J. Rand—Desiccating Kiln.



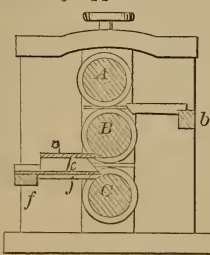
48193—J. Sangster—Printing Press.



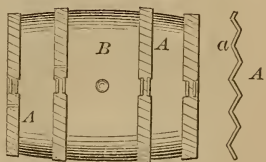
48194—W. M. Storm—
Railroad Spike.



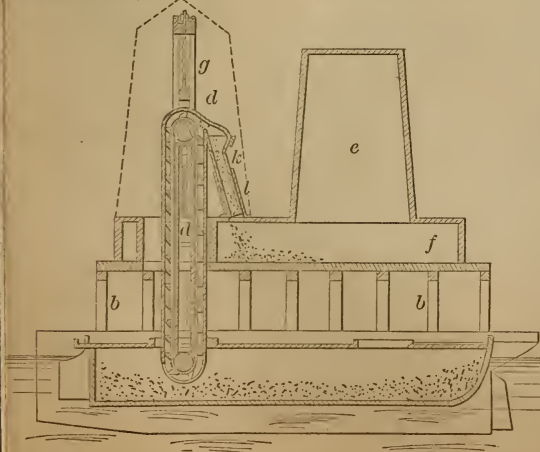
18496—E. Wassell—
Rolling Apparatus.



48197—W. Wilson, Jr.—Metallic
Hoop.



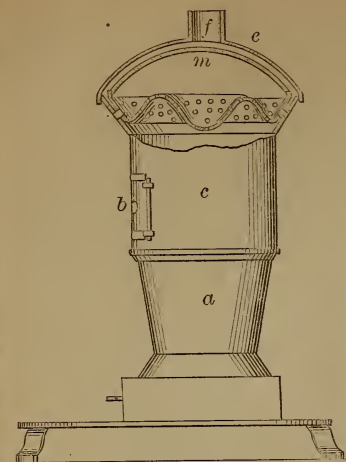
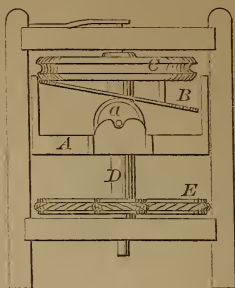
18195—Taggart, Chichester, & Mills—Grain Elevator.



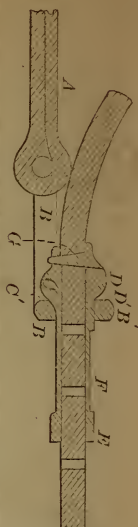
48198—Woods & Blood—Bench Hook.



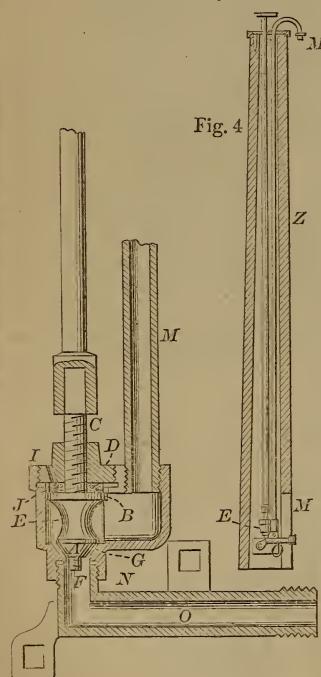
48501—J. Crea—Stove.

48502—S. F. Ames—
Converting Motion.

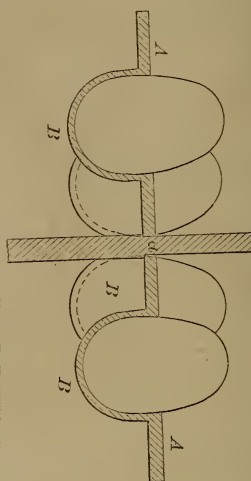
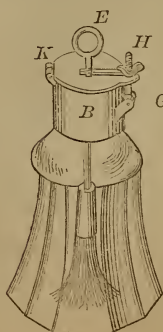
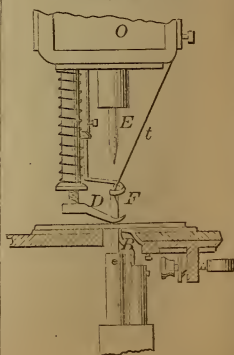
48503—T. G. Bailey—Buckle.



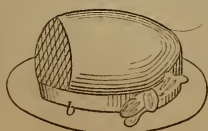
48504—W. Bailey—Hydrant.



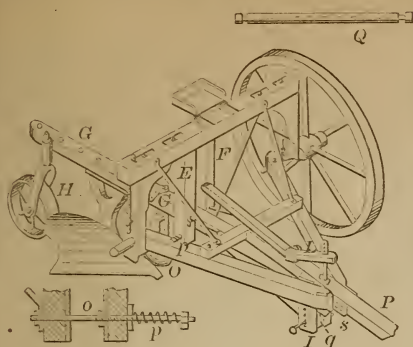
48507—O. T. Medell—Egg Holder.

48505—
G. Banister—
Socket for Hoes.48508—J. W. Boughton—
Mucilage Bottle.48511—Bradford & Barber—
Sewing Machine.

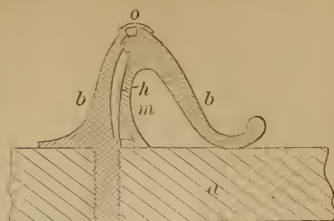
48510—T. Bracher—Head Covering.



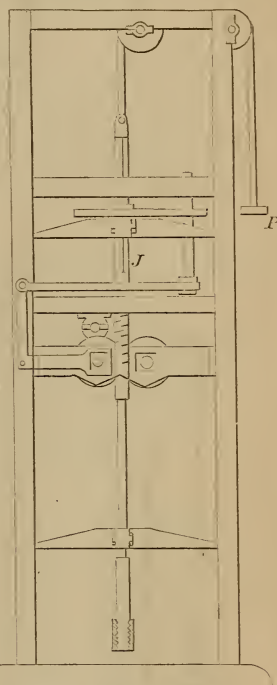
48512—J. Brewer—*Sulky Plow.*



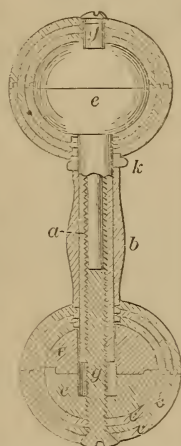
48513—E. Brown—*Breeching Hook.*



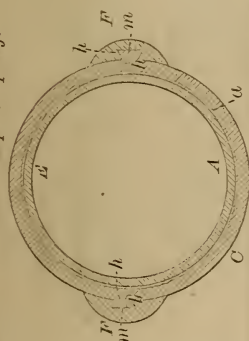
48515—Campbell & Cole—*Boring Wells.*



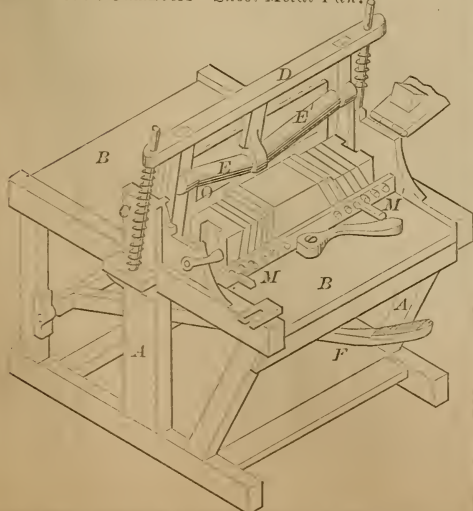
48514—D. P. Butler—*Dumb Bell.*



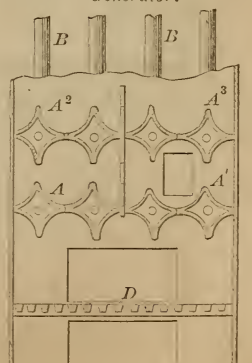
48517—J. Chambers—*Pipe Coupling.*

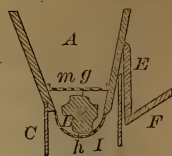
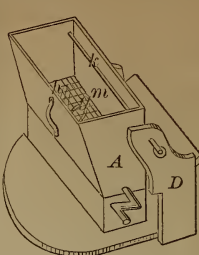
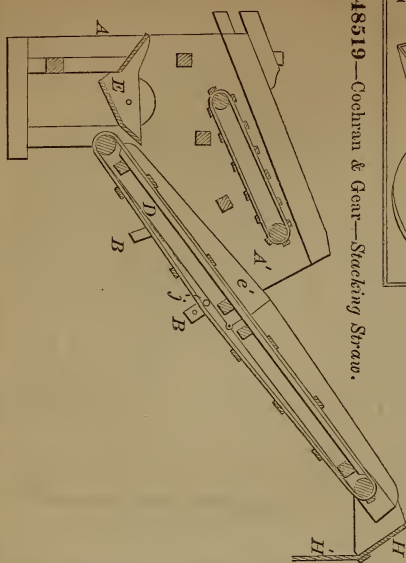
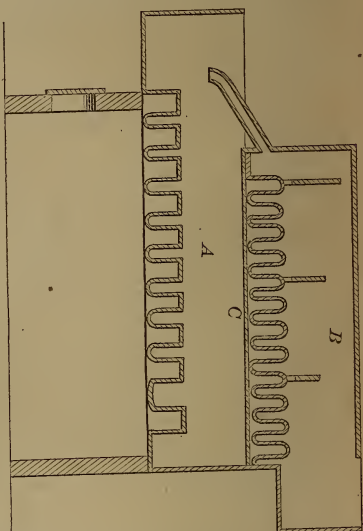
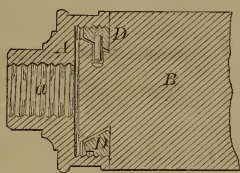
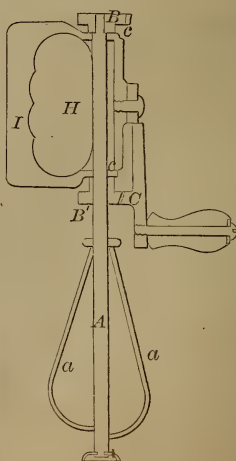
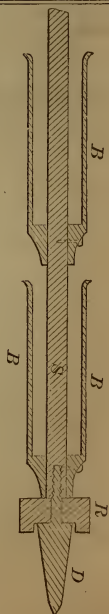
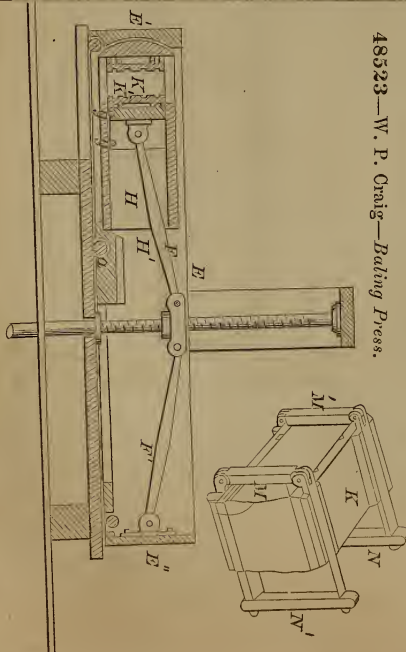


48516—C. F. Chambers—*Sheet Metal Pan.*

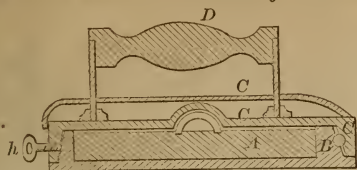


48518—J. Chilcott—*Steam Generator.*

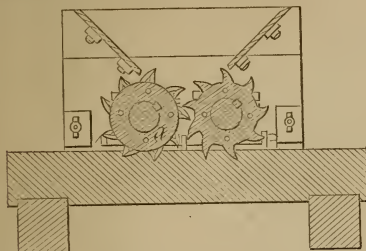


48520—D. C. Colby—*Flour Sifter.*48519—Cochran & Gear—*Stacking Straw.*48522—D. M. Cook—*Sugar Molding.*48521—S. J. Cone—*Chuck for Lathe.*48525—M. G. Crane—*Egg Beater.*48524—A. Crandall—*Well Drill.*48523—W. P. Craig—*Baling Press.*

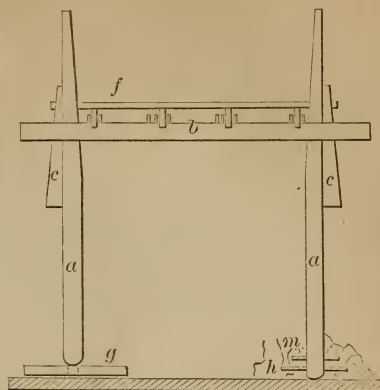
48526—J. W. Currier—*Smoother Iron.*



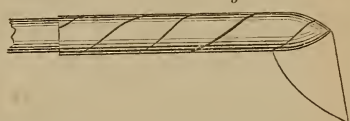
48532—J. A. Dickson—*Coal Breaker.*



48530—A. Derrom—*Trestle Bridge.*



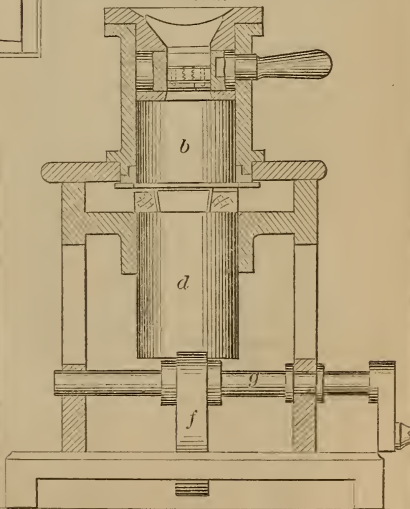
48527—D. Davison—*Segar.*



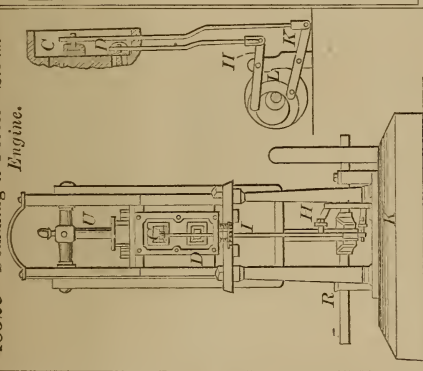
R. J. Dewhurst—*Railroad Chair Bolt.*



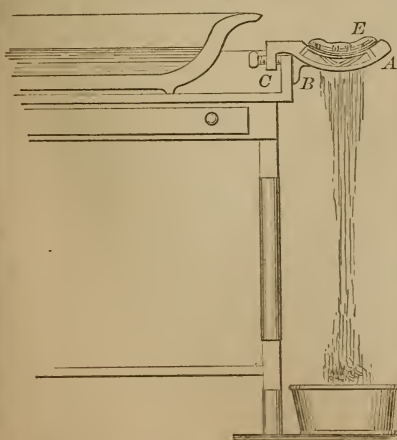
48534—J. Daughlish, M. D.—*Making Bread.*



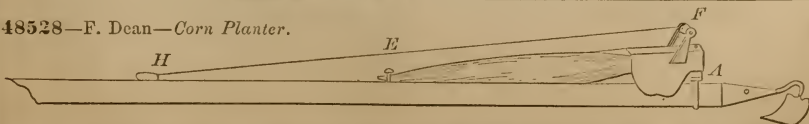
48529—Denning & Porter—*Steam Engine.*



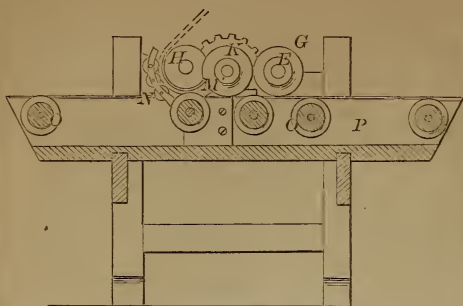
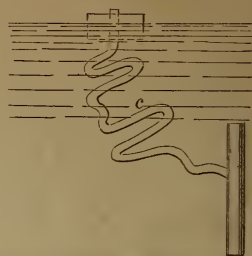
48533—G. Dieterich—*Wash Stand.*



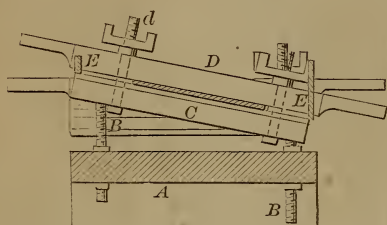
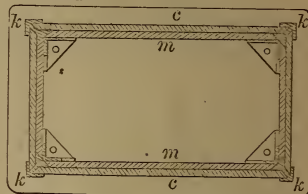
48528—F. Dean—*Corn Planter.*



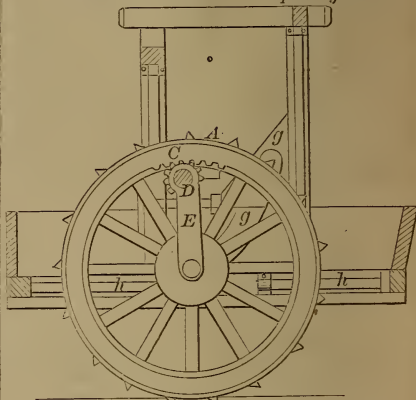
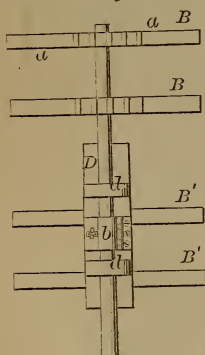
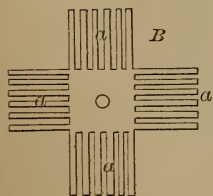
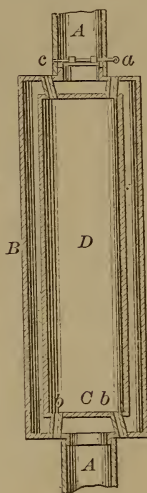
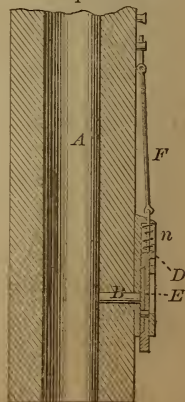
48535—J. Dobbins—Hoop Cutting.

48539—T. P. Edson—Raising
Sunken Vessel.

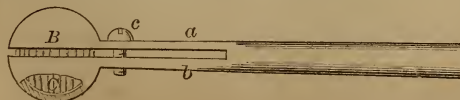
48538—J. W. Easby—Bending Metal.

48542—J. H. Flagg—Joint for
Soapstone Stoves.

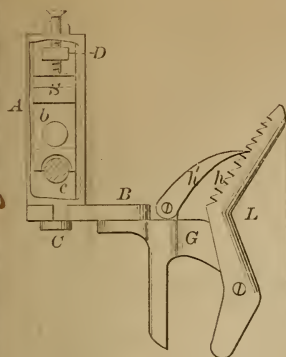
48541—H. Fenton—Propelling Wheel.

48537—J. P. Dorman—
Clothes Dryer.48540—
A. Edwards—
Radiator.48536—
W. C. Dodge—
Cartridge Case.48543—E. A. Floyd—
Pump Valve.

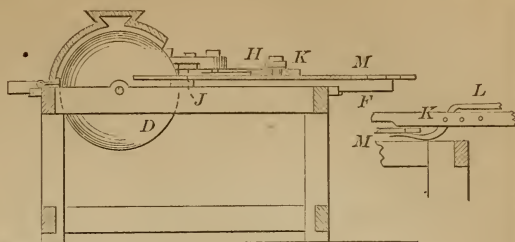
48544—J. W. Foard—Shoemaker's Flout.



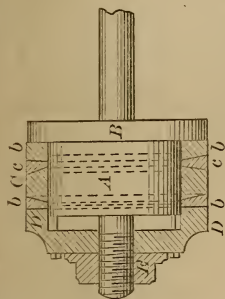
48515—H. G. Folger—Clothes
Wringer.



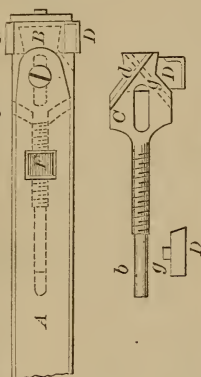
48546—A. K. Foster—Saw Gummer.



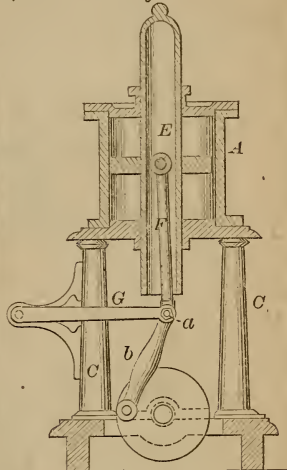
48547—A. Fulton—Piston Packing.



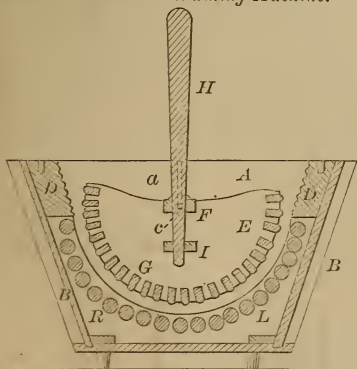
48548—F. Gleason—Expanding Drill.



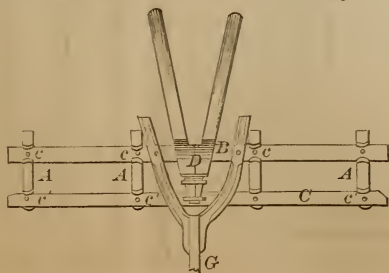
48549—W. Golding—Steam
Engine.



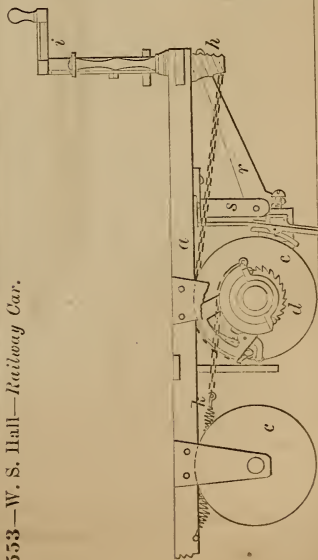
48550—E. Gordon—Washing Machine.

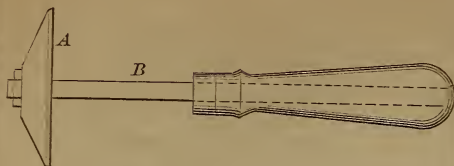
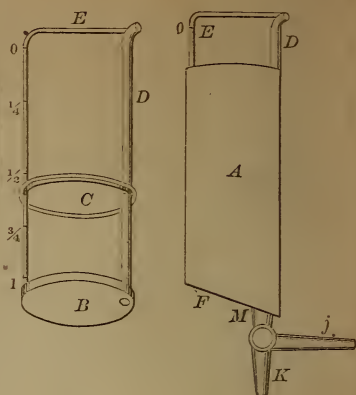
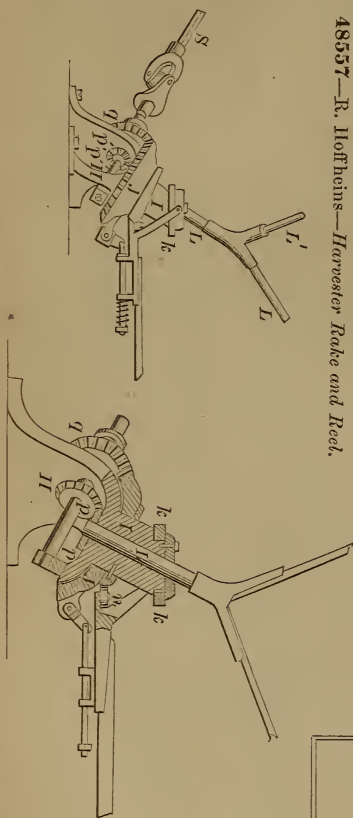
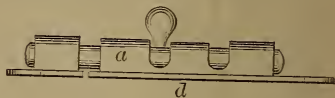
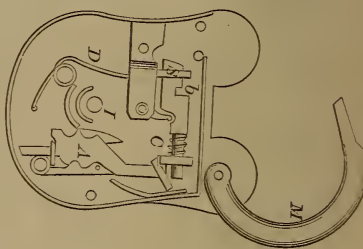
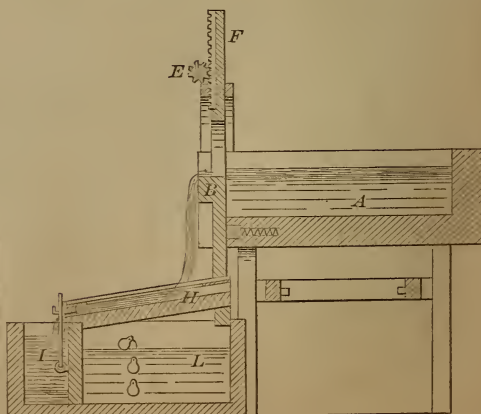


48551—W. Goltry—Marker for Planting.

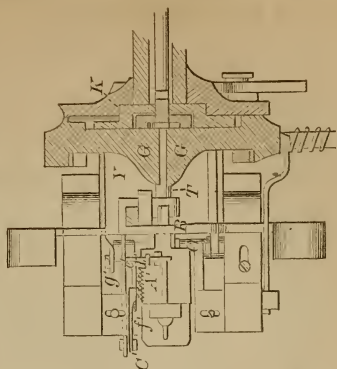
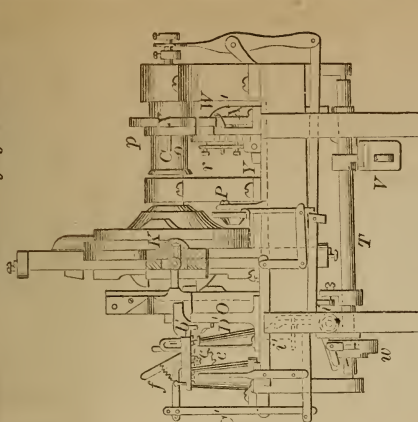


48553—W. S. Hall—Railway Car.



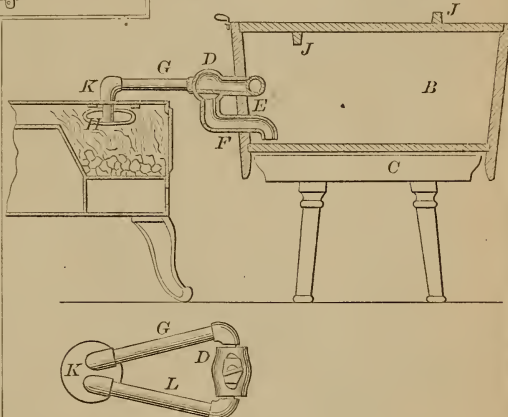
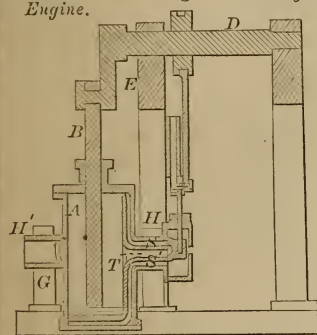
48554—C. W. Harris—*Mast Scraper.*48556—G. H. Henkel—*Faucet Measure.*48557—R. Hoffheims—*Harvester Rake and Reel.*48555—W. H. Hart—*Door Bolt.*48558—Huffer & Schner—*Pedlock.*48559—D. H. Kaufman—*Separating Grease.*

48560—J. C. Jewell—*Forging Machine.*

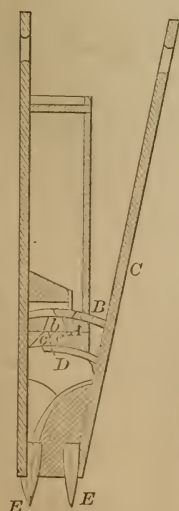


48561—J. Keane—*Water Heater.*

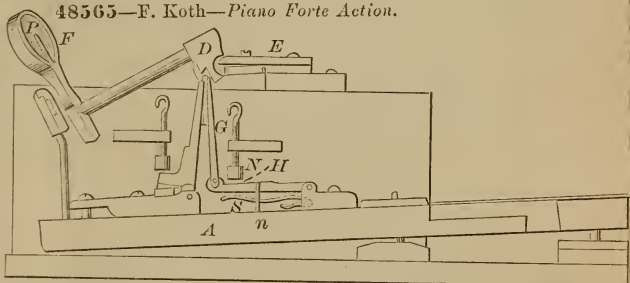
48563—W. H. King—*Oscillating Engine.*



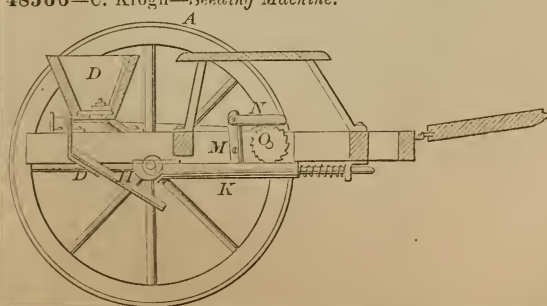
48562—
C. A. Kellogg—
Hand Corn Planter.



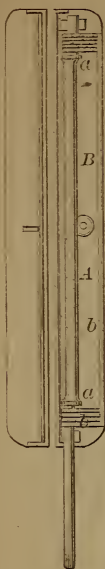
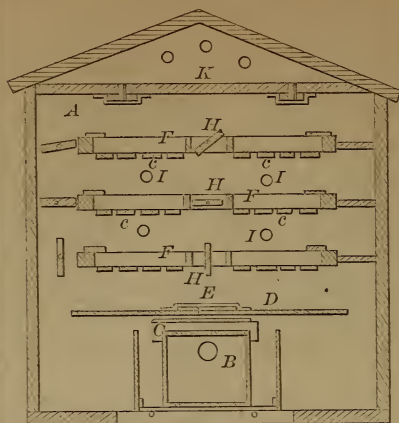
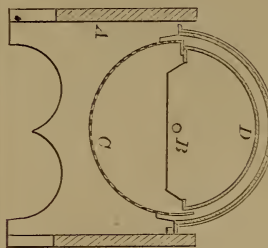
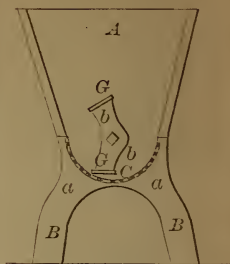
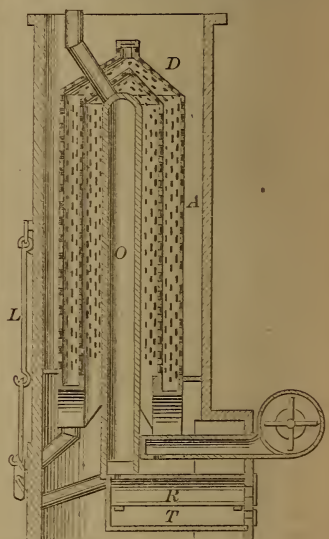
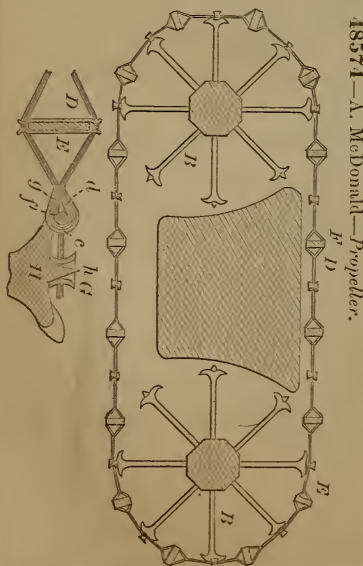
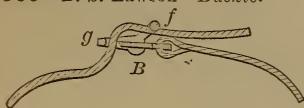
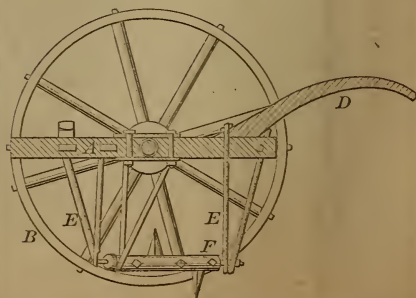
48565—F. Koth—*Piano Forte Action.*



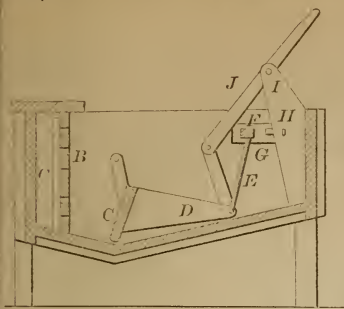
48566—C. Krogh—*Seeding Machine.*



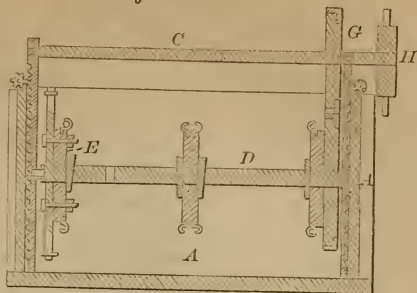
48568—

G. Lantenschlager—*Paper Title.*48570—D. Lippy—*Fruit Dryer.*48571—H. Locke—*Flour Sifter.*48572—S. C. Maine—*Flour Sifter.*48573—S. Marsh—*Grain Dryer.*48569—B. S. Lawson—*Buckle.*48574—A. McDonald—*Poppet.*48575—H. S. Mead—*Cultivator.*

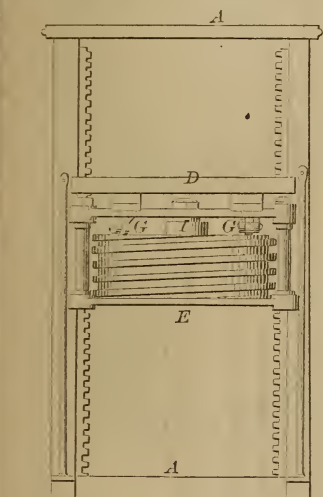
18576—S. P. Mecay—*Washing Machine.*



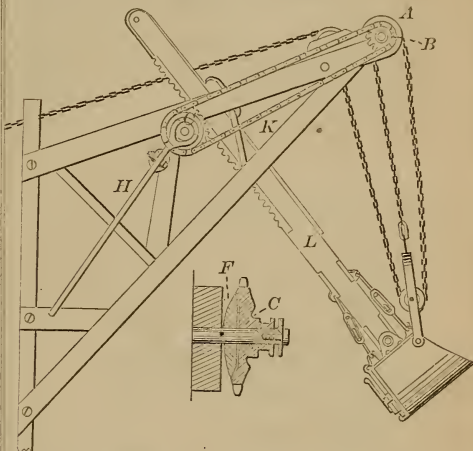
18578—Miller, Barnett, & Study—*Liming Hides.*



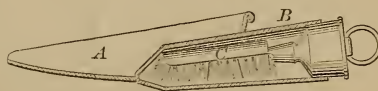
18579—W. Miller—*Hoisting Machine.*



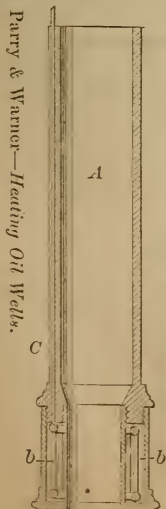
18581—J. C. Osgood—*Excavator.*



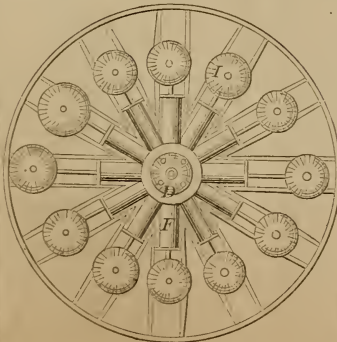
18582—Parker & Burnham—*Dust Pan.*



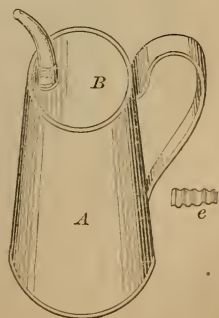
18584—



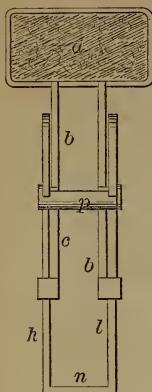
18577—Merriam & Cushing—*Rotary Engine.*



18585—Perkins & House—*Oil Can.*



48586—
W. R. Phelps—
Car Seat.



48587—J. E. Phillips—Brush Head.

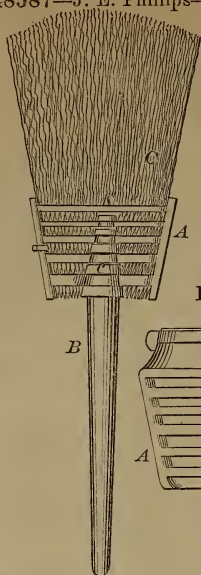
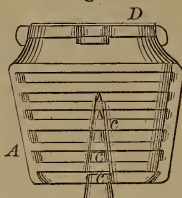
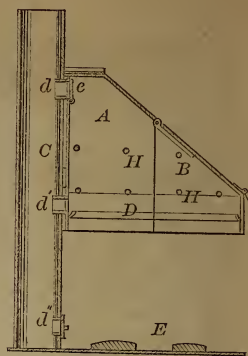


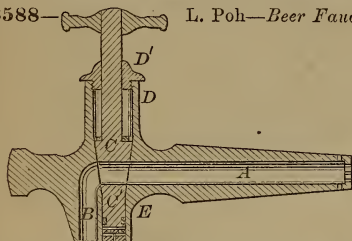
Fig. 2



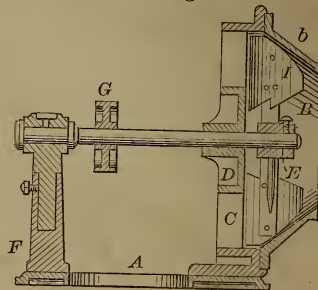
48592—Raymond & Miller—
Cook Stove.



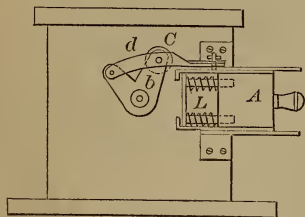
48588—L. Poh—Beer Faucet.



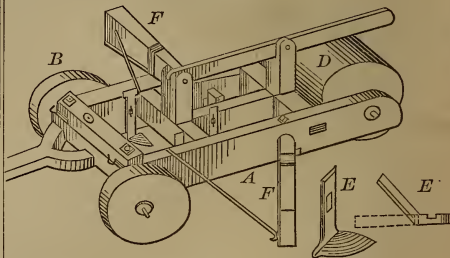
48593—C. G. Sargent—Fan Blower.



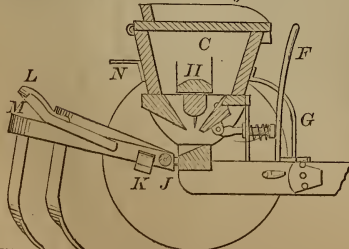
48589—J. Pollak—For Printing Checks.



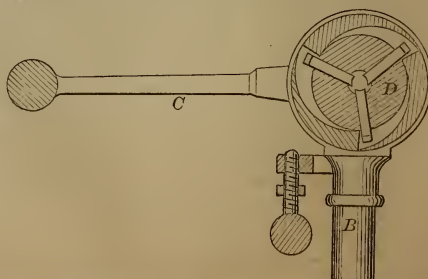
48591—N. Potter—Scraper.



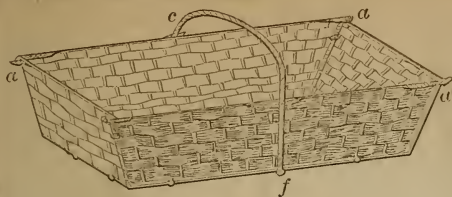
48590—O. M. Pond—Seeding Machine.



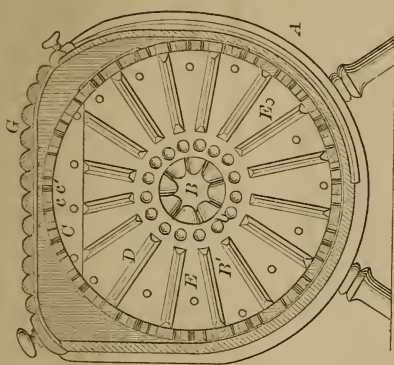
48594—E. Schlenker—Bolt Cutter.



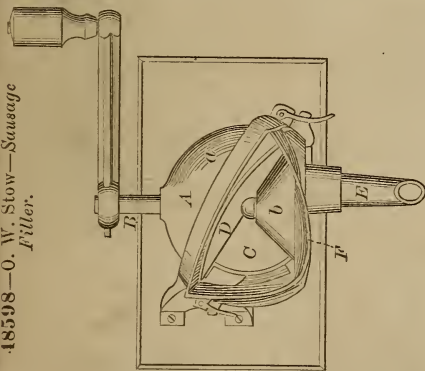
18595—T. R. Sherry—Basket.



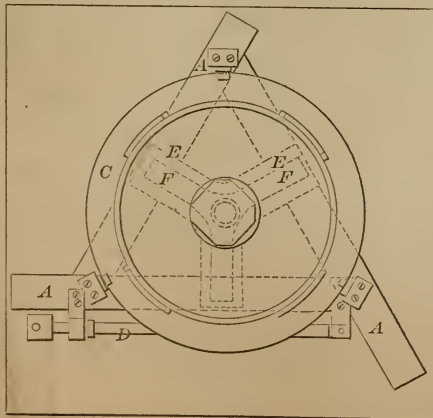
18596—H. E. Smith—Washing Machine.



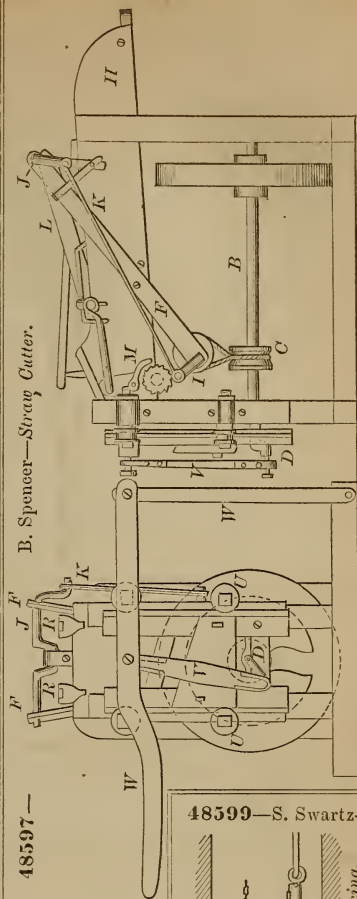
18598—O. W. Stow—Sausage Filler.



18600—J. B. Sweetland—Horse Power.

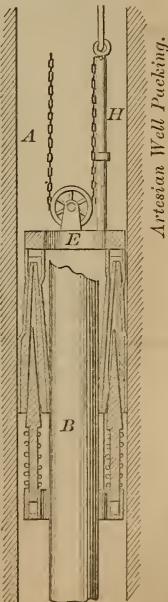


B. Spencer—Straw Cutter.



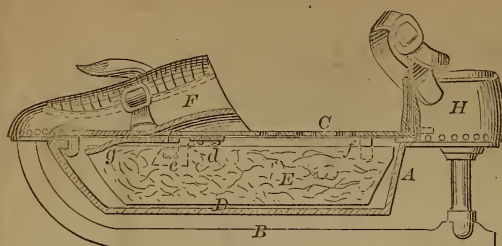
18597—

18599—S. Swartz—

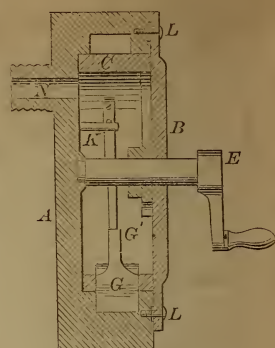


Artesian Well Pumping.

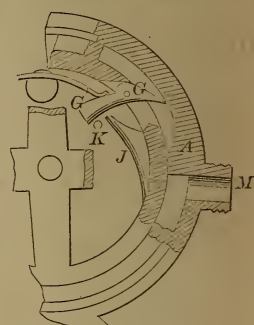
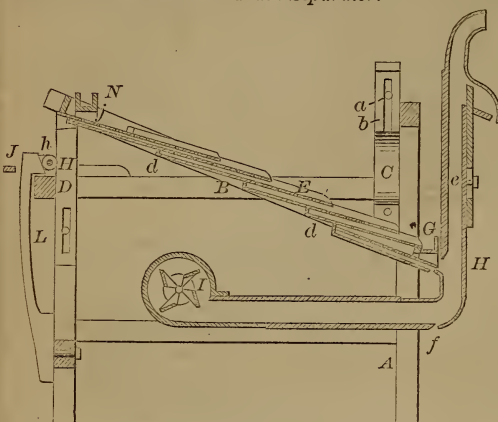
48601—O. W. Taft—Skate.



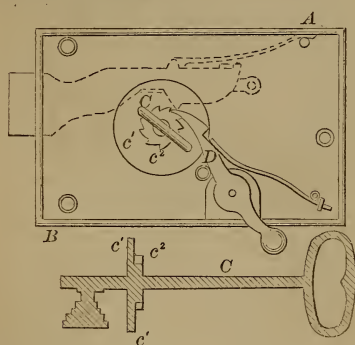
48604—P. Umholtz—Rotary Pump.



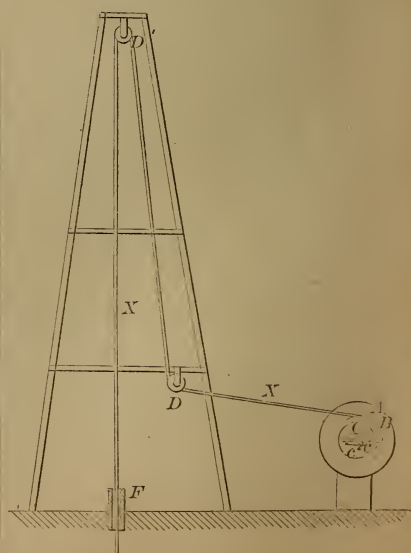
48603—J. Tomlinson—Grain Separator.



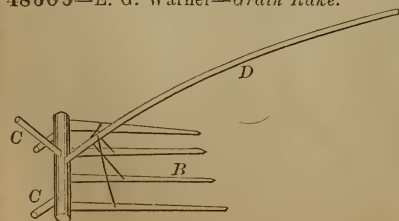
48602—J. R. Tempest—Fastening Key.



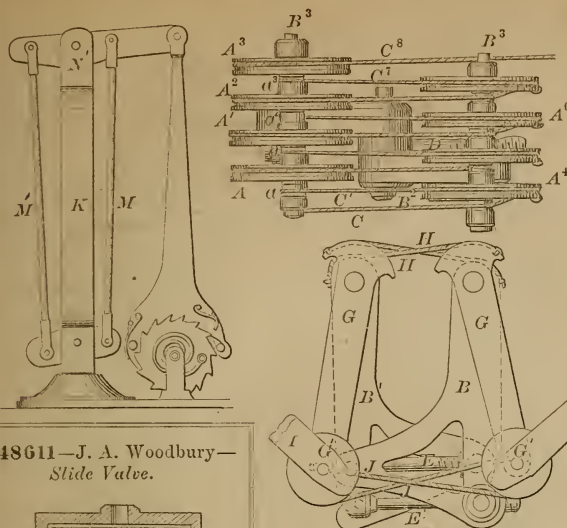
48605—S. J. Wadsworth—Drilling Well.



48606—E. G. Warner—Grain Rake.



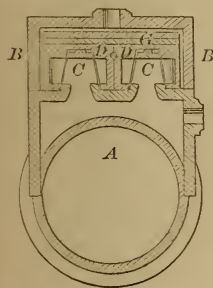
48607—G. I. Washburn—*Thermal Motor.*



48609—R. G. Wells—*Drill.*



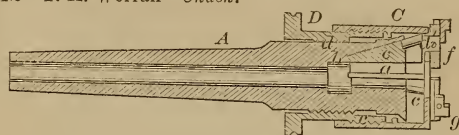
48611—J. A. Woodbury—*Slide Valve.*



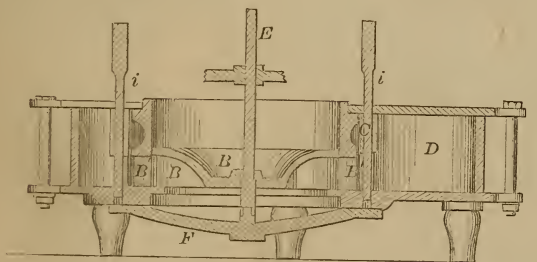
48610—P. White—*Buckle.*



48612—T. H. Worrall—*Chuck.*



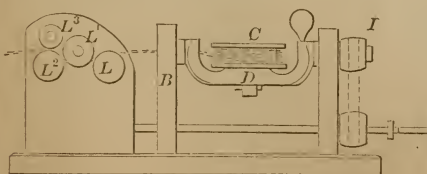
48613—G. F. Wright—*Water Wheel.*



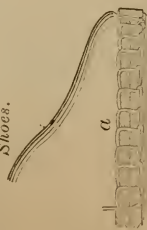
48615—J. Beyer—*Extracting Drills from Wells.*



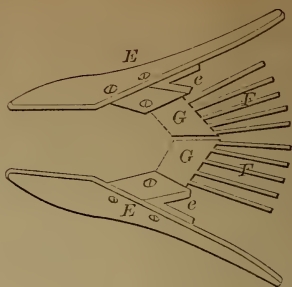
48608—G. I. Washburn—*Wire Straightening.*



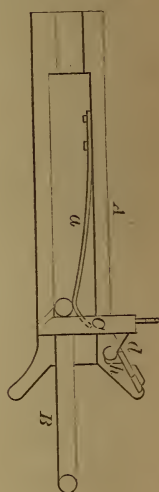
48614—F. D. Ballou—*Boots and Shoes.*



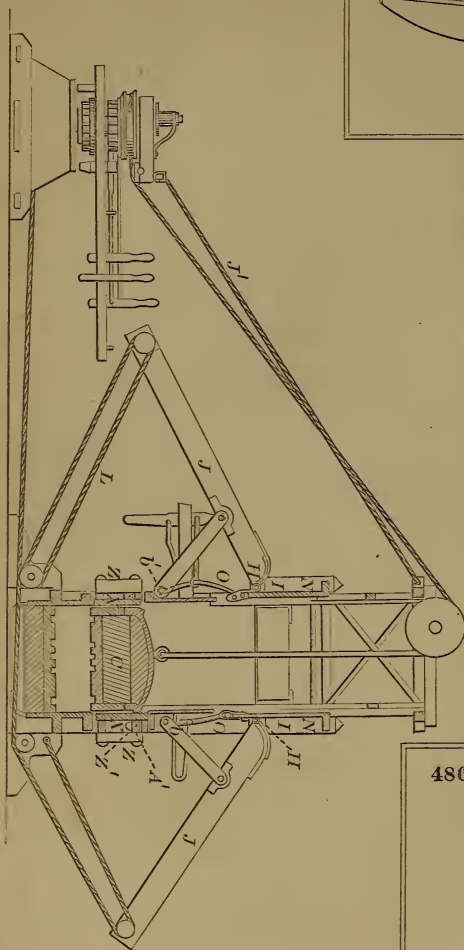
48616—M. & J. W. Chandler—Cultivator.

48618—G. Ouster—
Horse Shoe.

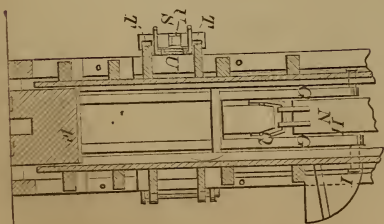
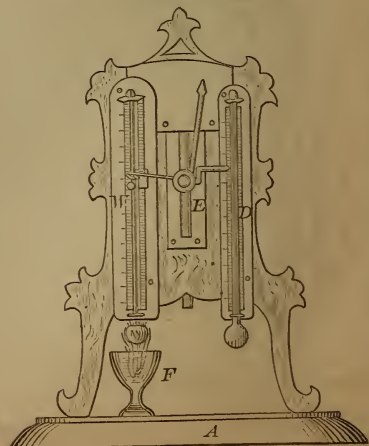
48617—W. C. Clarke—Car Coupling.



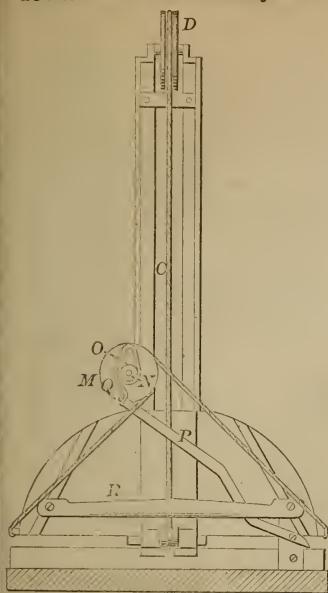
48619—P. H. Dederick—Beater Press.



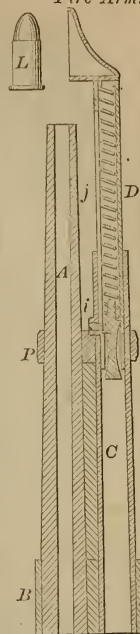
48620—W. Edson—Hygrometer.



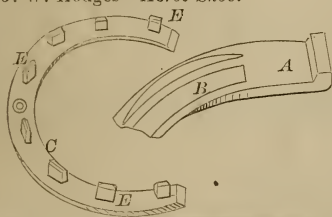
48621—L. C. Field—*Baling Press.*



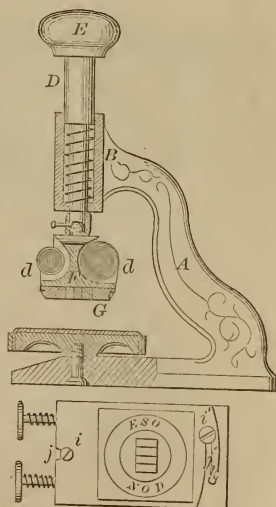
48622—
J. Gray—
Fire Arm.



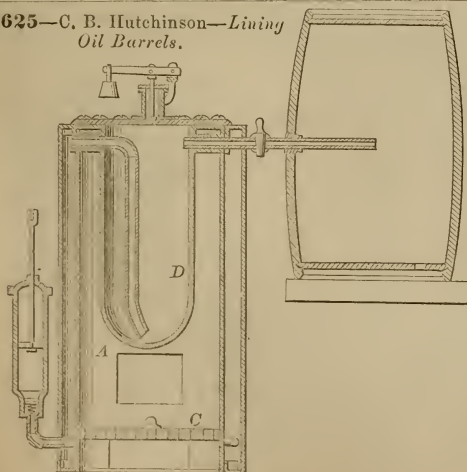
48623—J. W. Hodges—*Horse Shoe.*



48624—H. Holt—*Hand Stamp.*

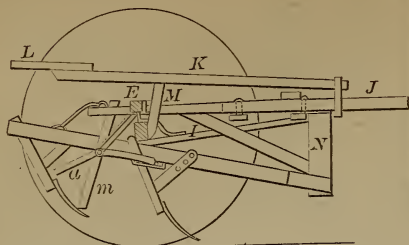
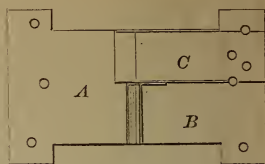
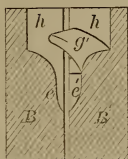
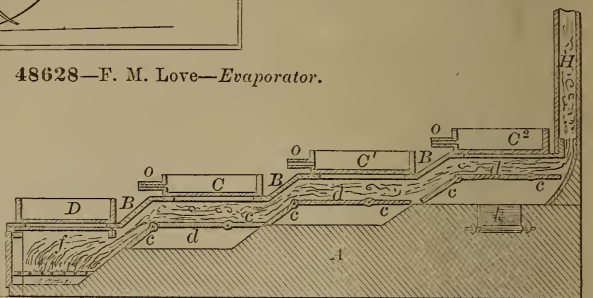
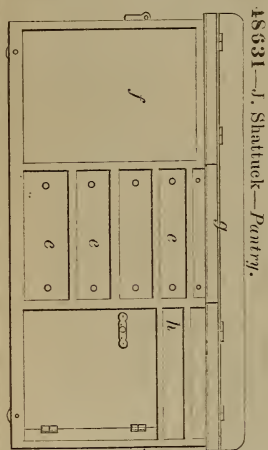
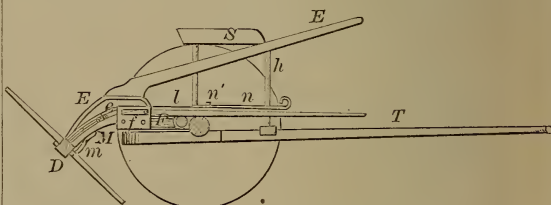
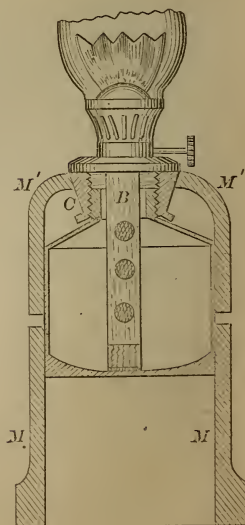
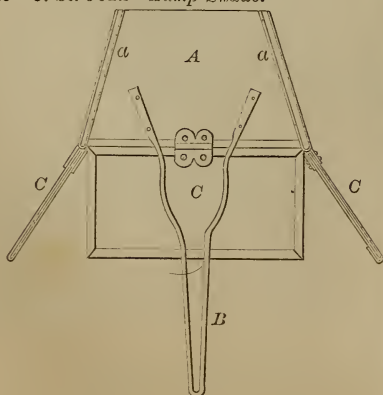


48625—C. B. Hutchinson—*Lining Oil Barrels.*

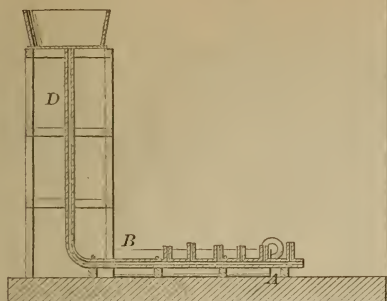


48626—H. D. Jennings—*Curling Iron.*

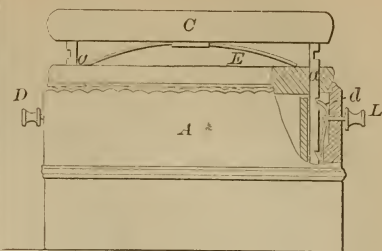


48627—J. Lacey—*Cultivator.*48630—N. Sehner—*Hinge.*48633—E. H. Tracy—*Making Augers.*48628—F. M. Love—*Evaporator.*48629—R. I. Robeson—*Horse Rake.*48631—J. Shattuck—*Partition.*48635—Boschan, Bindtner & Caffon—*Lamp.*48632—C. St. John—*Lamp Shade.*

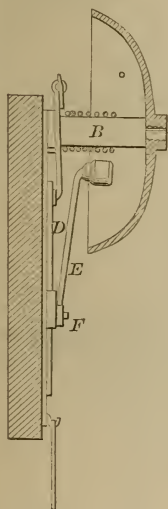
48636—A. Hamar—Preserving Wood.



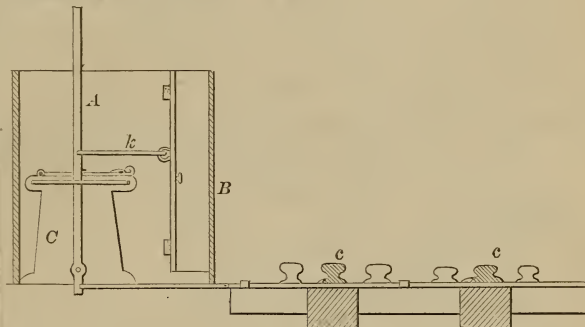
48638—C. S. Adams—Foot Rest.



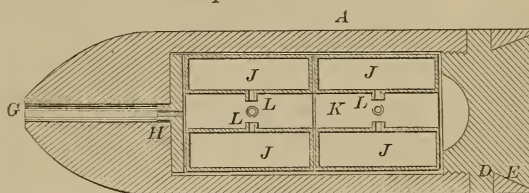
48637—H. H. Abbe—Door Bell.



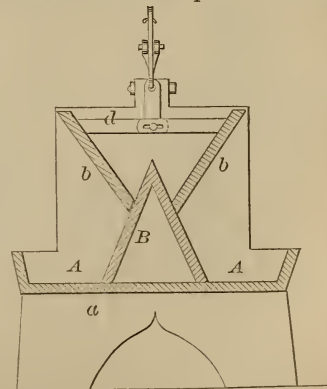
48640—M. Ball—Railroad Switch.



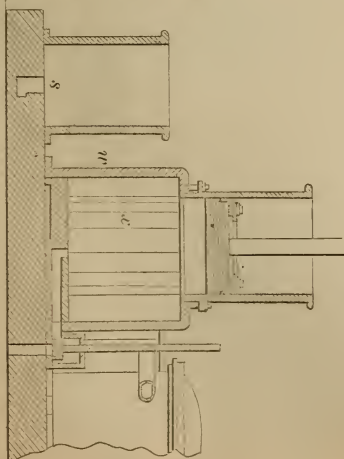
48642—H. Barton—Explosive Shell.

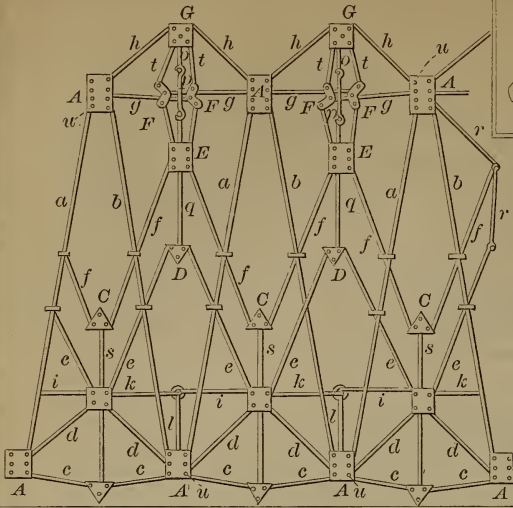
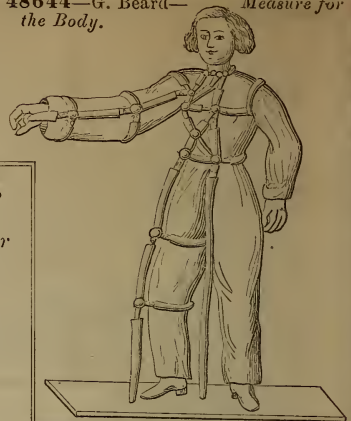
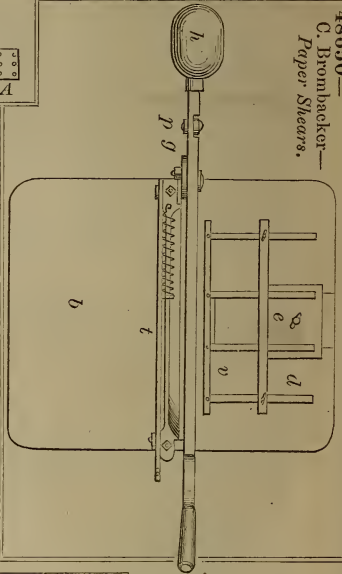
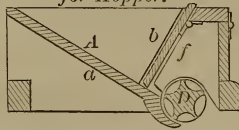
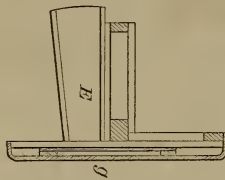
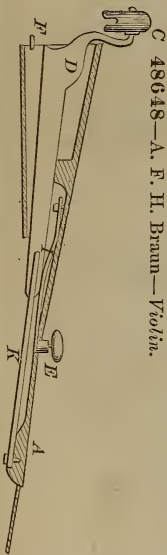
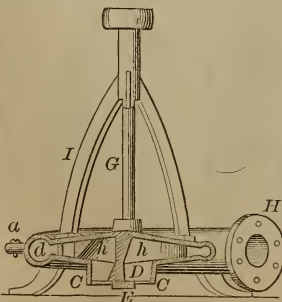
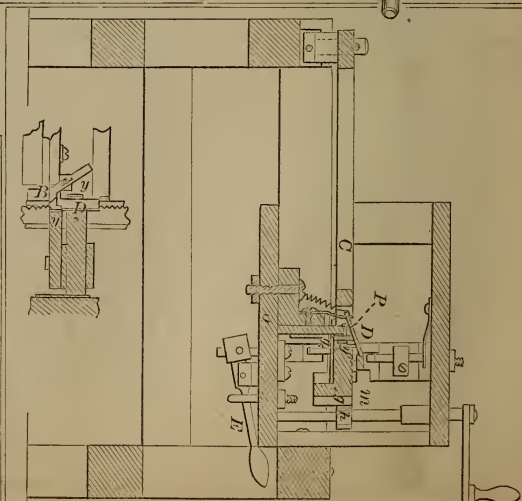


48641—M. Barnard—Sheep Rack.

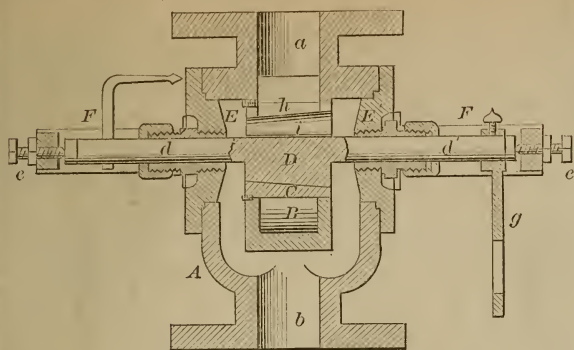


48639—C. W. Baldwin—Hot Air Engine.

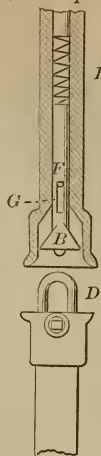


48643—W. Batchelder—*Bridge Truss.*48644—G. Beard—*Measure for the Body.*48650—
C. Brombacker—
Paper Shears.48646—J. S. Bodge—*Mechanism for Hopper.*48649—J. Brockway—
Stump Cutter.48648—A. F. H. Braun—*Violin.*48647—J. Boley—*Pump.*48651—Brooks & Sylvester—*Boot Counter Machine.*

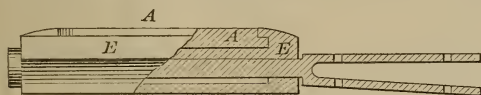
18652—O. E. Brown—Governor Valve.



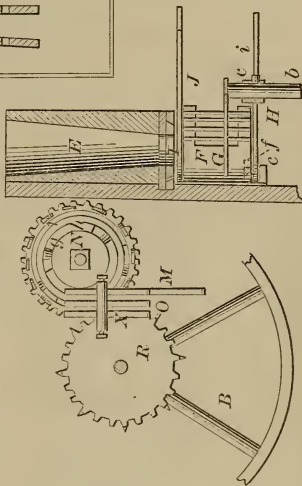
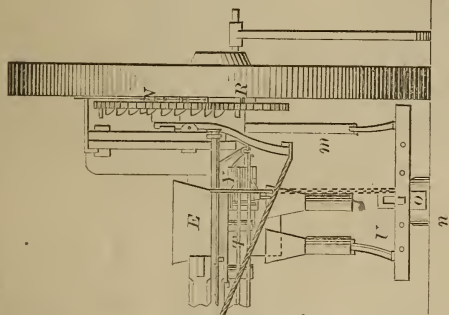
18656—S. E. Chaney—Car Coupling.



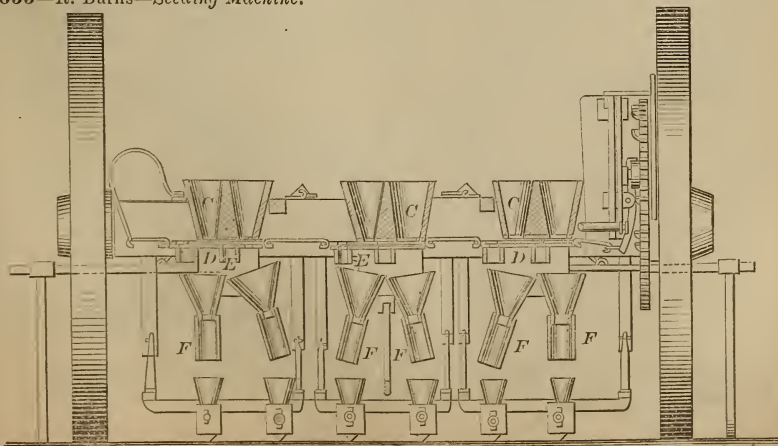
18653—J. Bundy—Carriage Coupling.



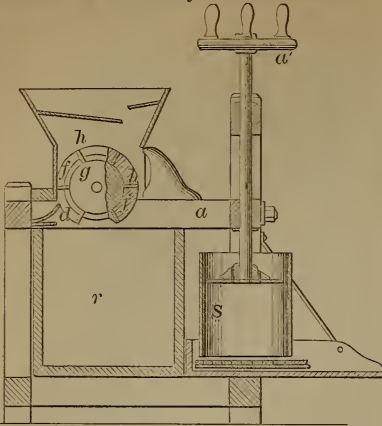
18651—R. Burns—Corn Planter.



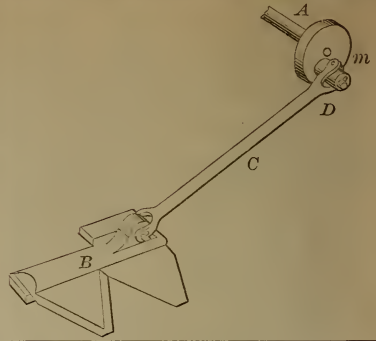
18655—R. Burns—Seeding Machine.



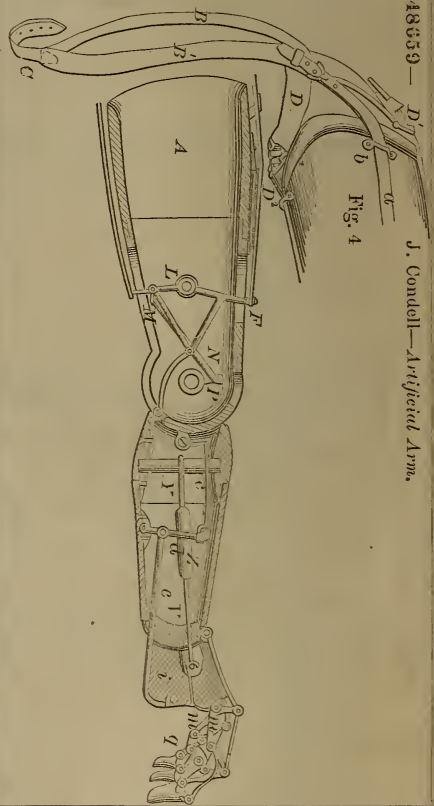
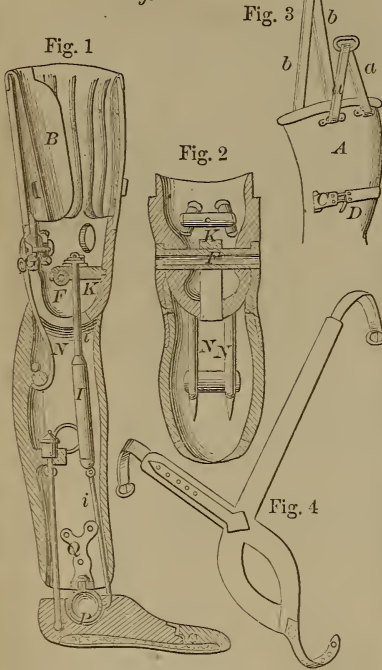
48657—W. & L. Clayton—Cider Mill.



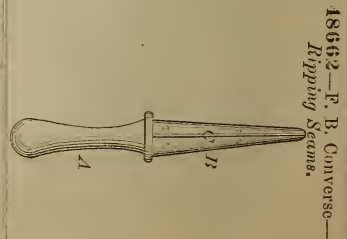
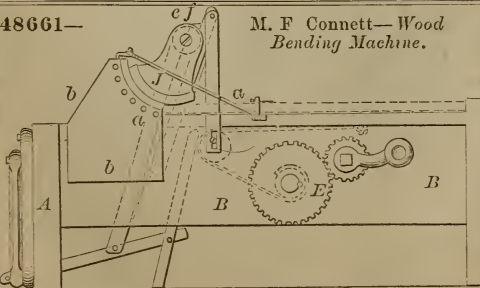
48658—I. H. Collier—Harvesting Machine.



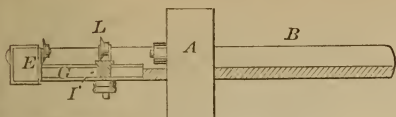
48660—J. Condell—Artificial Leg.



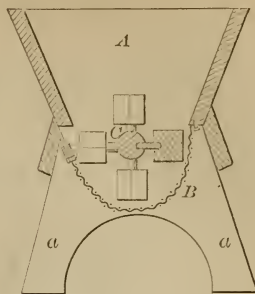
48661—M. F. Connett—Wood Bending Machine.



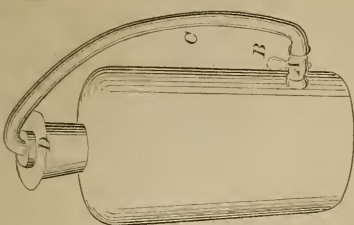
48663—B. T. Currier—*Carpenter's Gauge.*



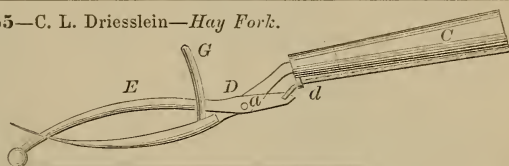
48668—H. Fairbanks—*Flour Sifter.*



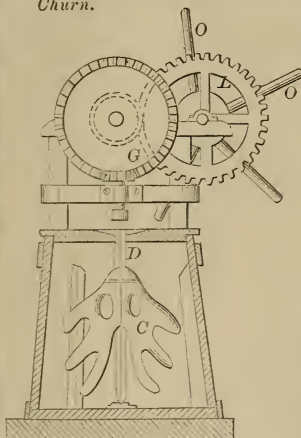
48664—Doty, E. A. & W. F. Stein—*Photographer's Decanter.*



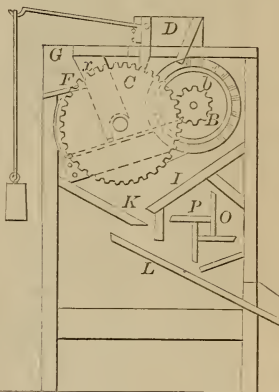
48665—C. L. Driesslein—*Hay Fork.*



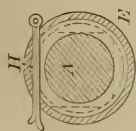
48666—Edminister & Johnson—*Churn.*



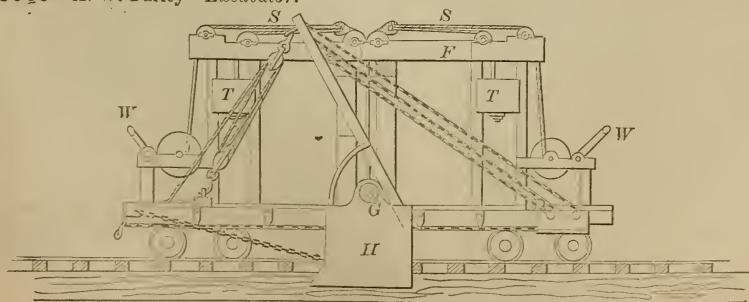
48670—G. W. Fitts—*Corn Sheller.*



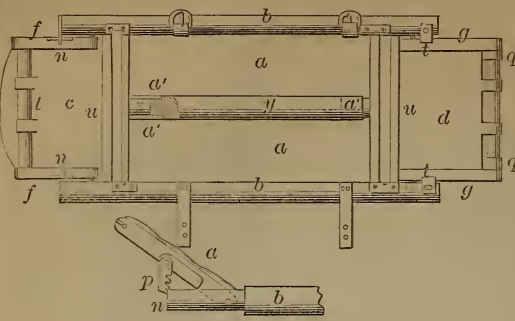
48667—J. Esler—*Boring Tool.*



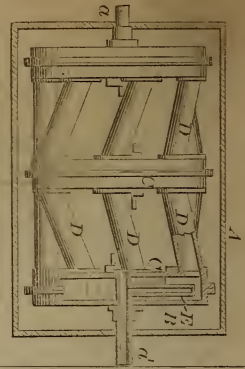
48669—H. W. Farley—*Excavator.*



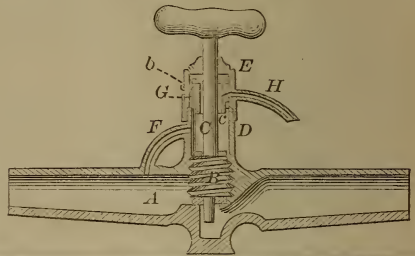
48671—Fostenson, Iversen, & Skow—*Camp Bedstead.*



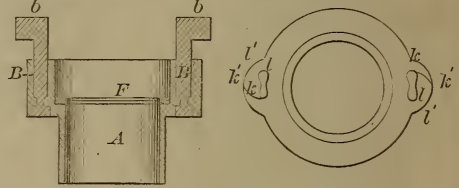
48672—C. F. Frederici—*Distilling Apparatus.*



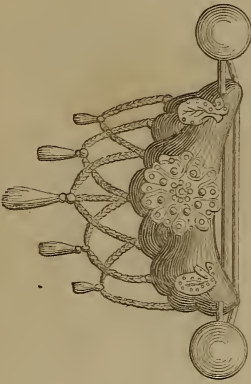
48673—J. P. Gallagher—*Cock.*



48674—A. M. George—*Pipe Coupling.*



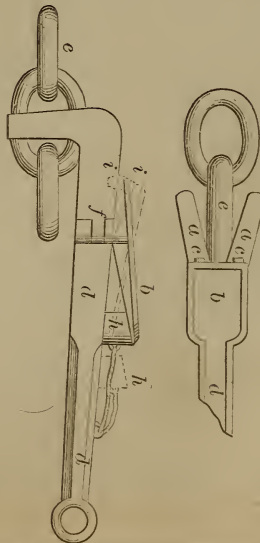
48677—Grant & Downs—*Lead Dress.*



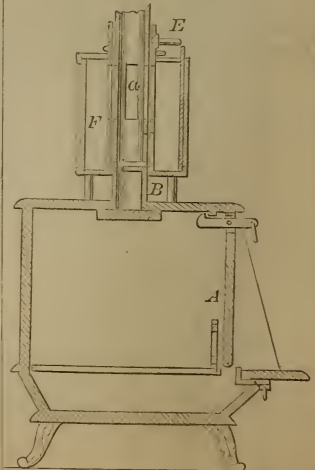
48376—P. A. Galwin—*Stove Cover Lifter.*



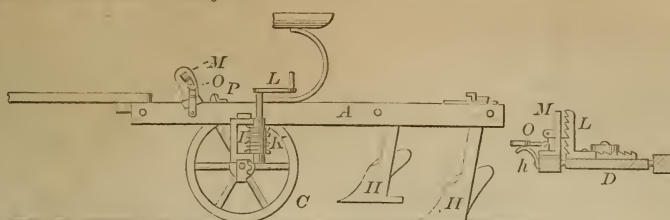
48675—S. Gmüling—*Chain Holder.*



48678—C. B. Grey—*Lamp and Stove.*

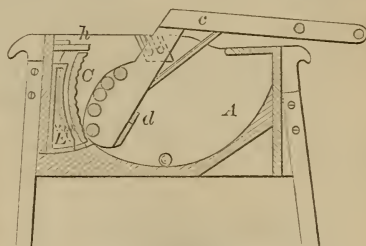
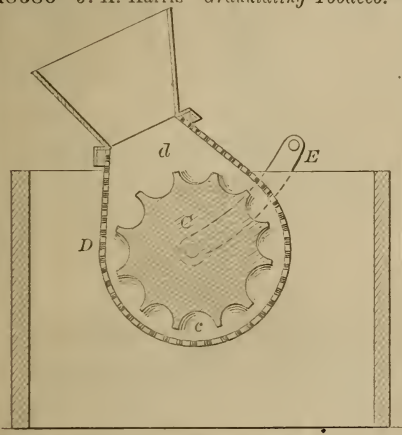


48679—A. Hammond—Gang Plow.



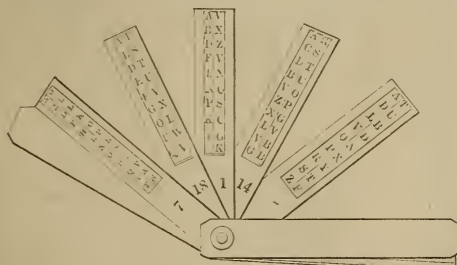
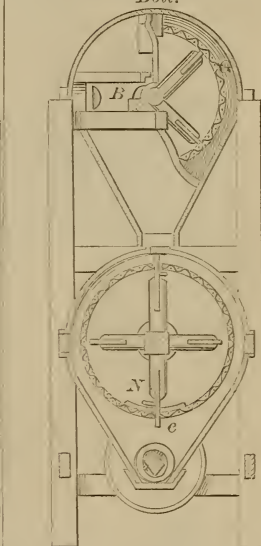
48680—J. H. Harris—Granulating Tobacco.

48683—J. Heinlein—Washing Machine.



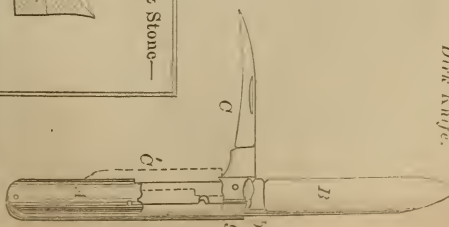
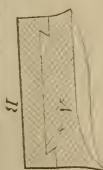
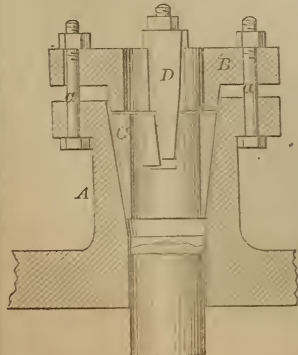
48684—S. Heffebower—Flour Bolt.

48681—E. H. Hawley—Cryptographic Alphabet.



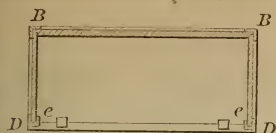
48686—H. L. Hopkins—Metallic Packing Box.

48682—Hayward & Stone—Root Reel.

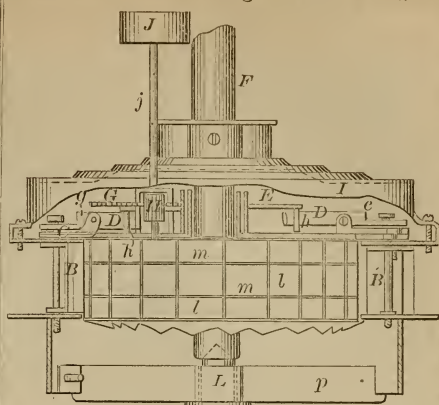


48685—A. Heninger—Pork Knife.

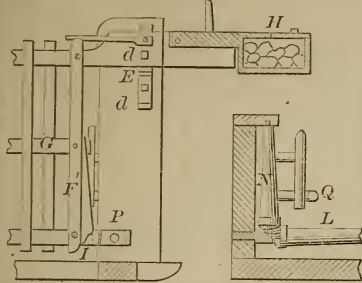
48693—Kimmey & Wright—Glass Case.



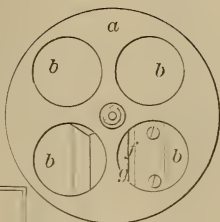
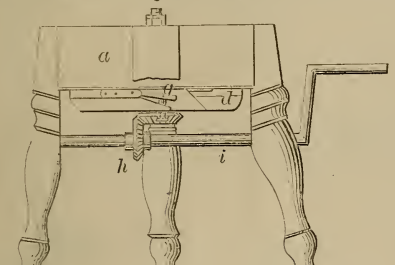
48694—T. J. Kindleberger—Water Wheel.



48698—J. Lee—Gate.

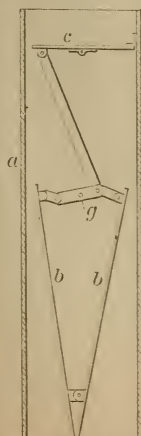


48700—T. Mason—Vegetable Slicer.

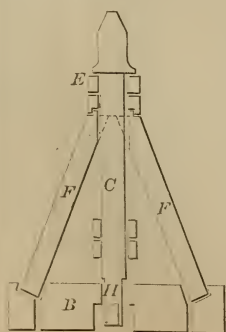


48695—

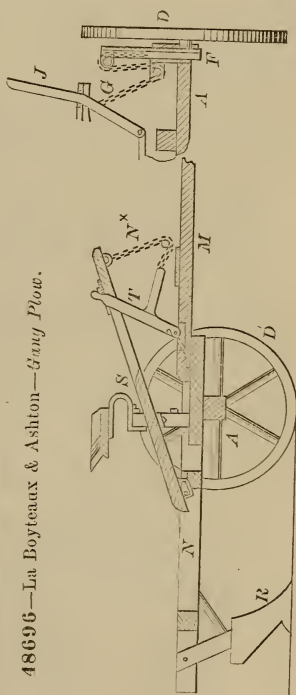
J. Knickerbocker—Dumper.



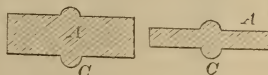
48701—May & Godfrey—Portable Fence.



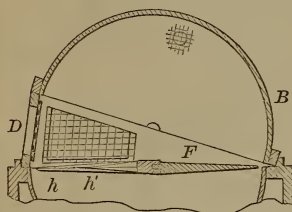
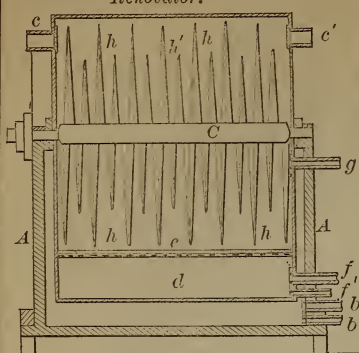
48696—La Boyteaux & Ashton—Gang Plow.



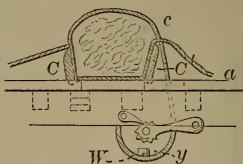
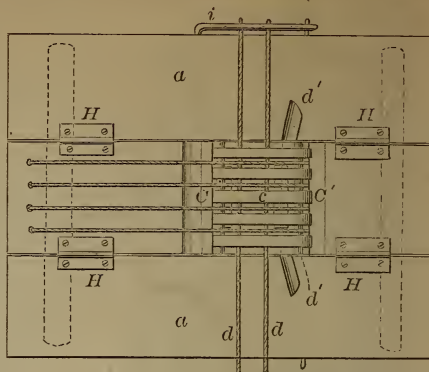
48699—M. Loughran—Swingletree Clip.



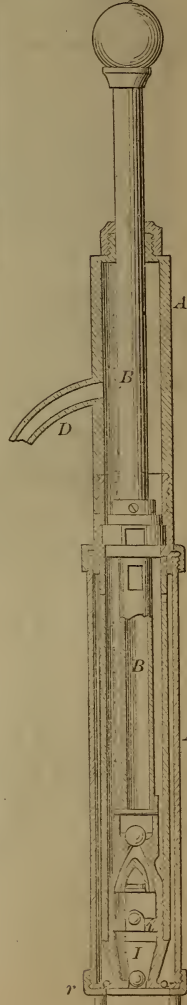
48702—W. McArthur—Feather Renovator.



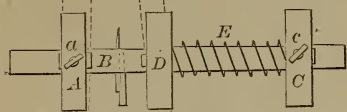
48705—T. N. Morse—Wool Press.



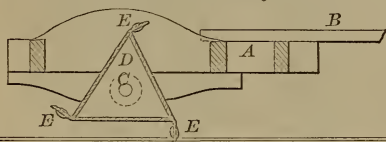
48707—A. Carver—Pump.



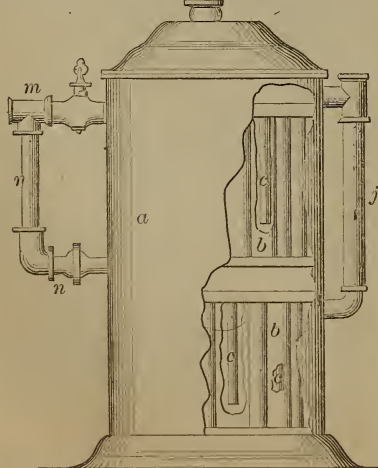
48703—J. McCrum—Carpenter's Gauge.



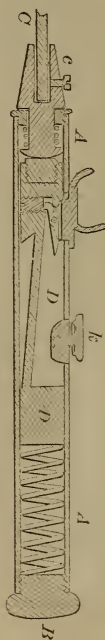
48704—T. W. McDill—Cutting Corn Stalks.



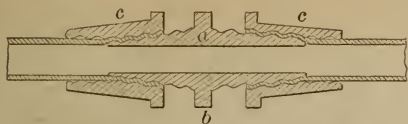
48706—J. F. Birchard—Carburetted Air.



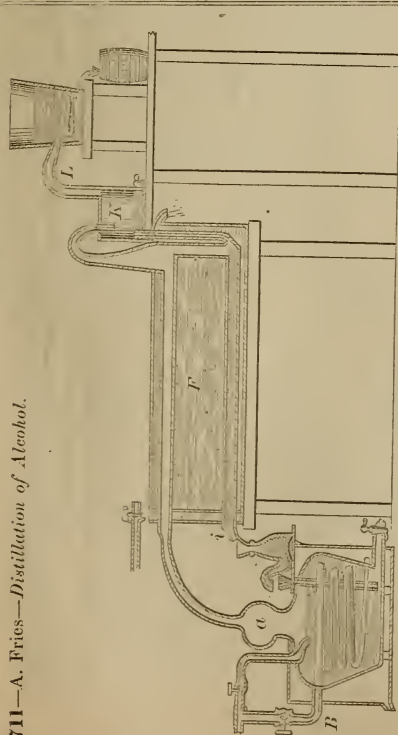
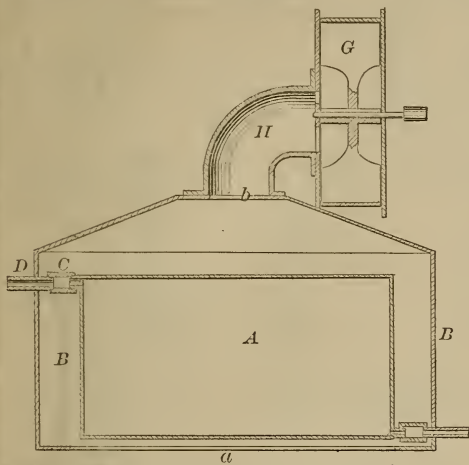
48708—J. C. Deem—Dental Hammer.



48709—C. W. Emery—*Pipe Coupling.*

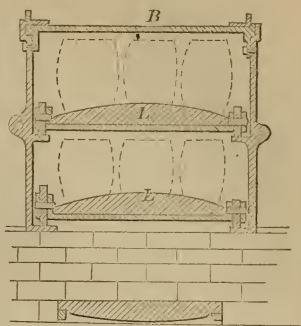


48710—A. C. Fletcher—*Condenser.*

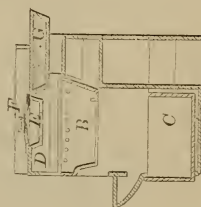
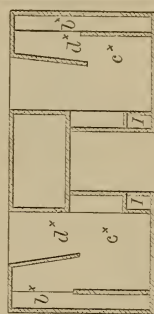


48711—A. Fries—*Distillation of Alcohol.*

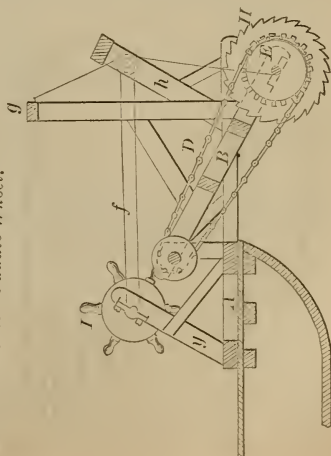
48713—G. Nimmo—*Preparing Crucibles.*



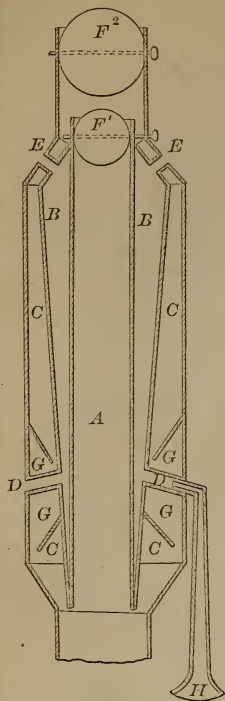
43712—E. G. Niles—*Cooking Range.*



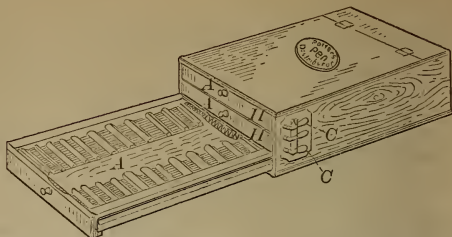
48715—O. Olds—*Paddle Wheel.*



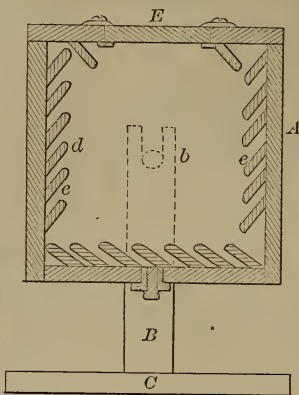
48716—J. C. Paine—
Stove Pipe Drum.



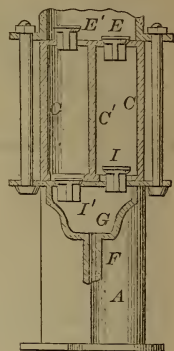
48717—S. A. Potter—Pen Distributor.



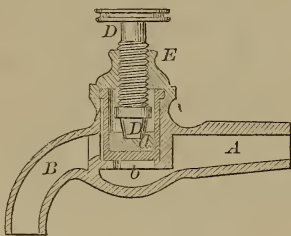
48718—S. S. Putnam—Washing
Machine.



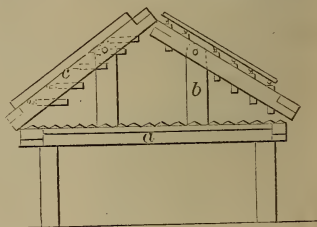
48720—F. Ransom—
—Pump.



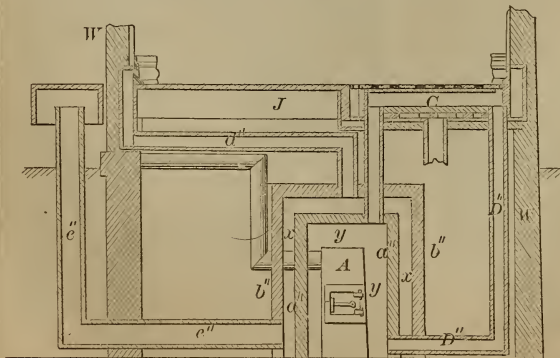
48721—J. Register—Cock.



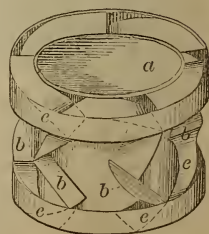
48723—B. Robinson—Curing Fish.



48722—E. Y. Robbins—Ventilating Apparatus.

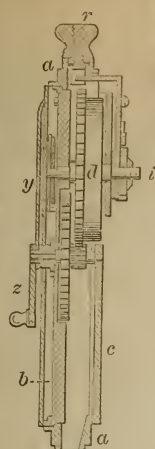


48724—T. Rose—Water
Wheel.

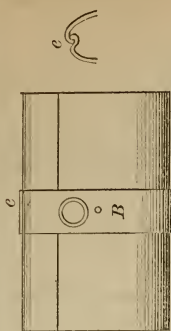


48725—

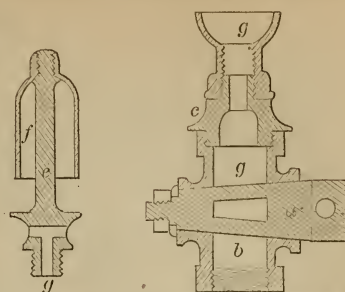
H. Rothfelder—Winding and Setting Watches.



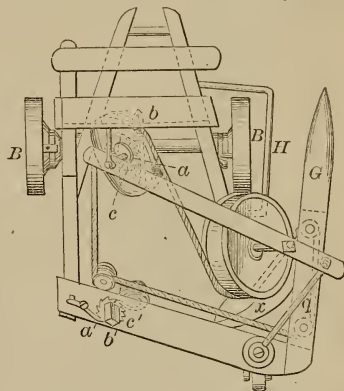
48727—L. Saarback—Pocket Book.



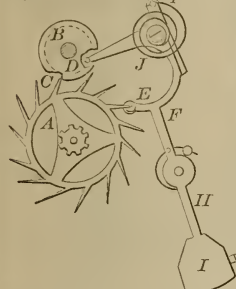
48730—T. Shaw—Low Water Signal.



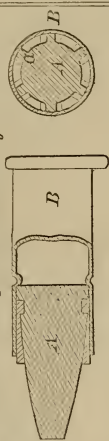
48731—J. Silvers—Flax Pulling Machine.



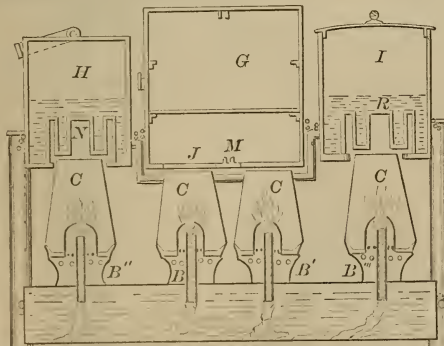
48726—H. Rothfelder—Chronometer Escapement.



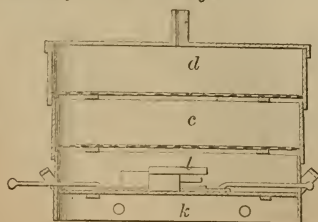
48729—C. Sharps—Five Arm Projectile.



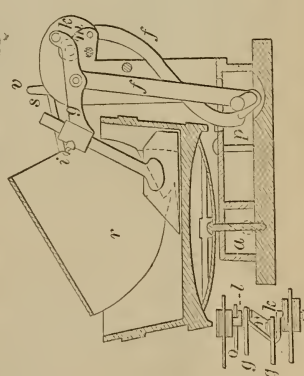
48732—H. E. Smith—Petroleum Stove.



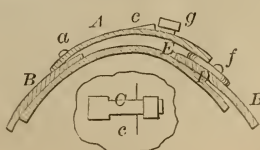
48733—A. Snyder—Fruit Dryer.



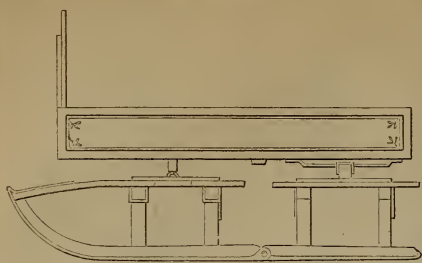
48734—Sparkling & Scott—Meat Chopper.



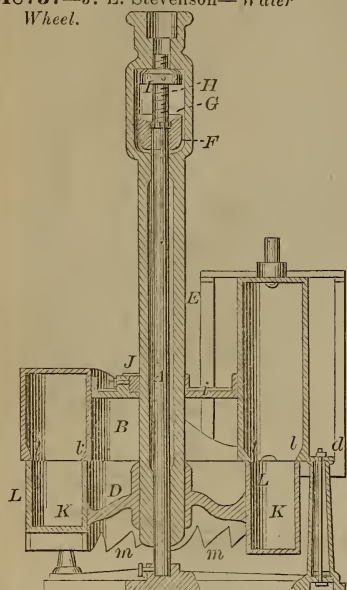
48735—A. Steinbach—Horse Collar Fastener.



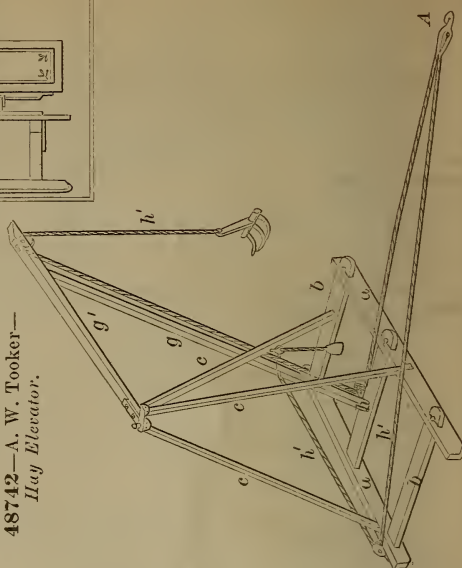
48736—I. Stephenson—Sleigh.



48737—J. E. Stevenson—Water Wheel.



48742—A. W. Tooker—Hay Elevator.

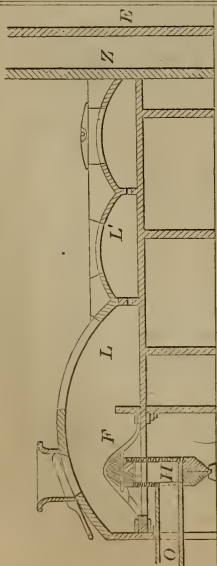


48738—T. B. Sturtevant—

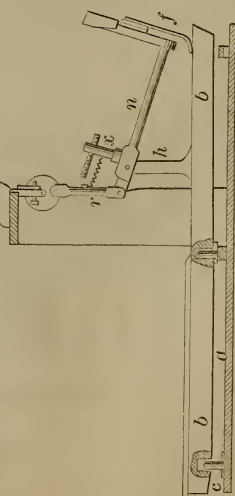
Coal Stove.



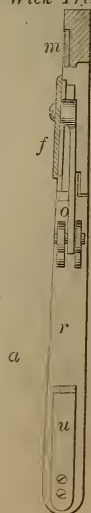
48739—W. A. Sweet—Melting Furnace.



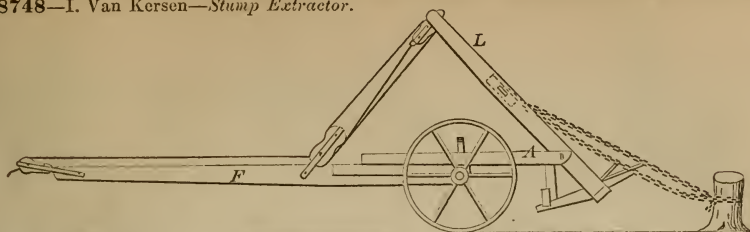
48741—J. H. Tibbitts—Piano Forte.



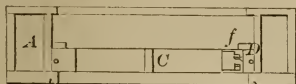
48743—C. L. Topliff—Wick Trimmer.



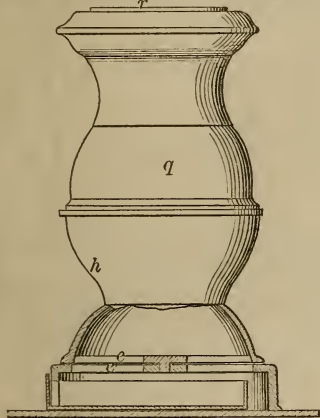
48748—I. Van Kersen—*Stump Extractor*.



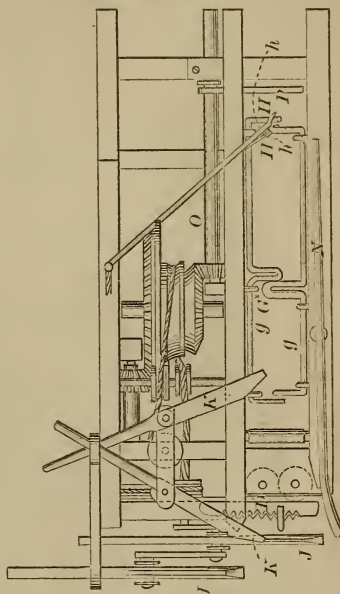
48749—S. Wales—*Window*.



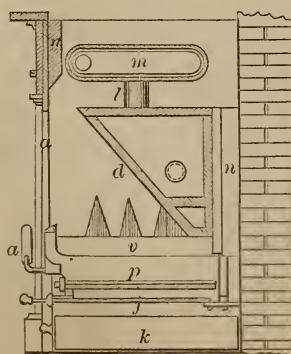
48751—Weldman & Old—*Coal Stove*.



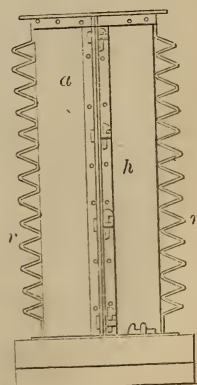
48750—S. Ward—*Corn Harvester*.



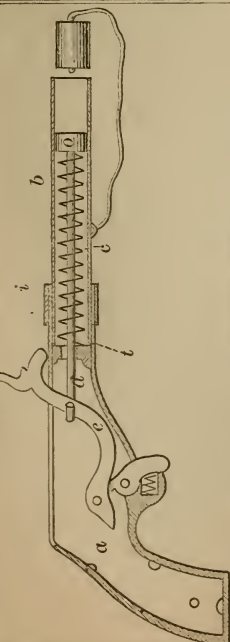
48752—Weldman & Old—*Fire Place*.

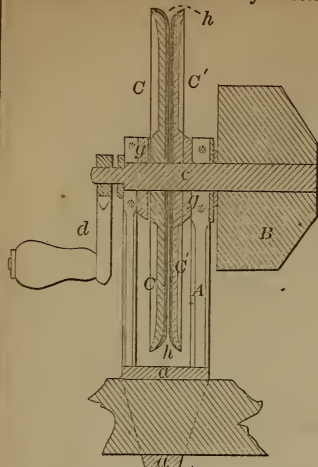
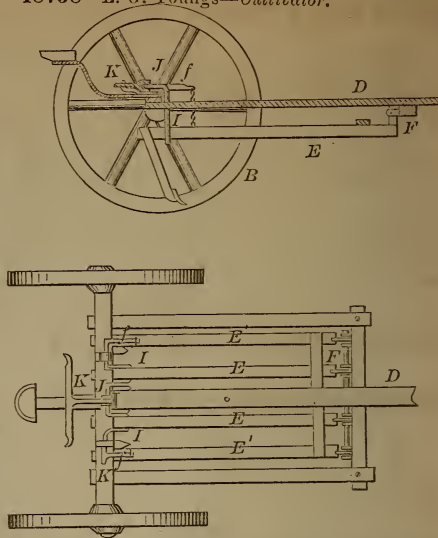
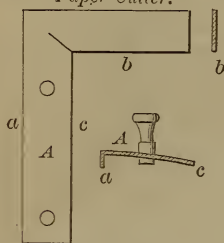
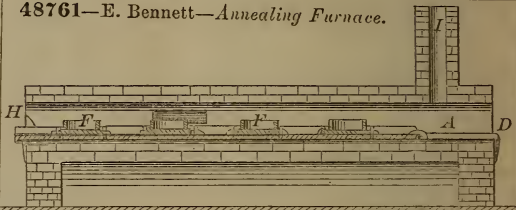
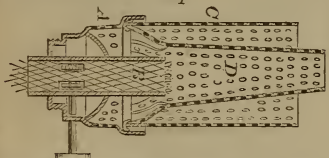


48753—D. Whitaker—*Soap Frame*.

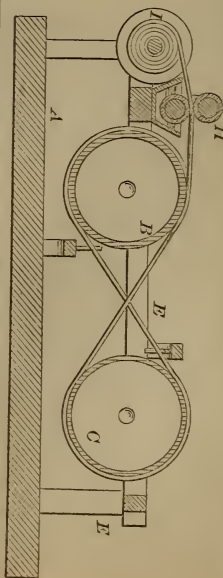
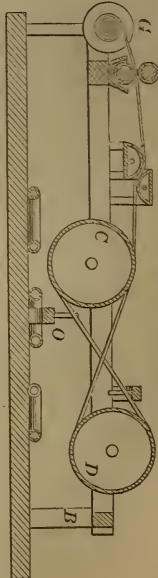


48754—N. P. Whittlesey—*Toy Gun*.

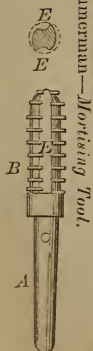
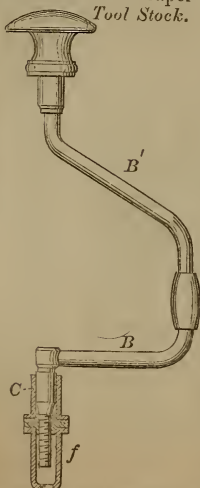


48755—G. L. Witsil—*Knife Polisher.*48758—L. G. Youngs—*Cultivator.*48756—J. Woodward—*Ruler and Paper Cutter.*48761—E. Bennett—*Annealing Furnace.*J. K. Andrews—*Lamp.*

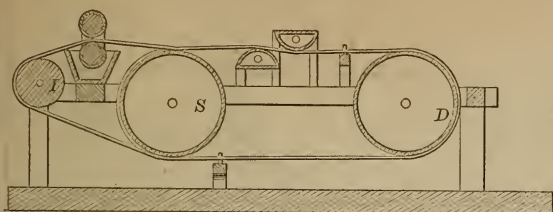
48760—

48761—W. E. Frost—*Finishing Steel Wire.*48765—W. E. Frost—*Finishing Steel Wire.*

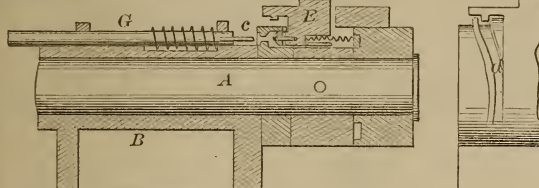
48759—

W. Zimmermann—*Mortising Tool.*48763—W. W. Draper—*Tool Stock.*

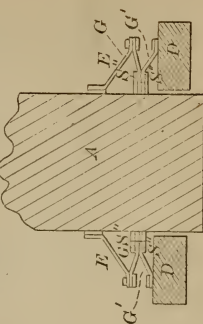
48766—W. E. Frost—*Finishing Skirt Wire.*



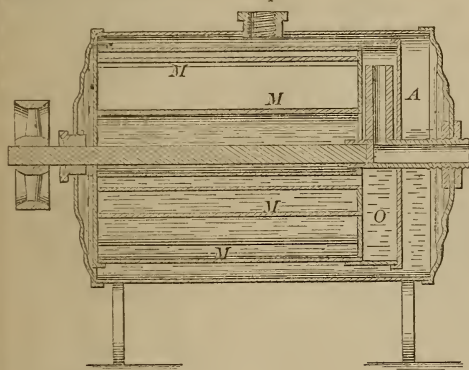
48769—T. F. Hammer—*Clutch.*



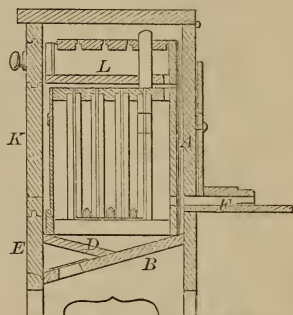
48767—A. J. Goye—*Mast Coat.*



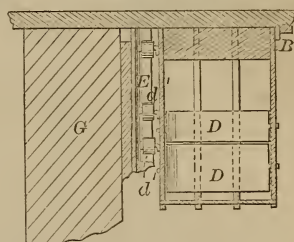
48770—G. B. Hill—*Air Pump.*



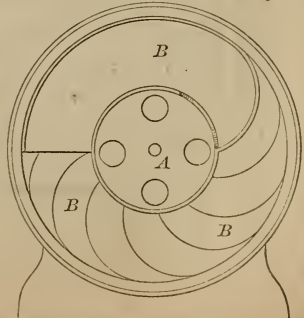
48768—D. S. Gray—*Beehive.*



48771—B. G. Martin—*Paddle Wheel.*

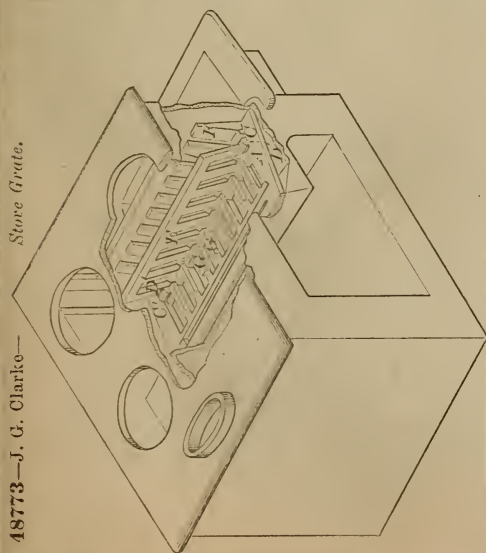


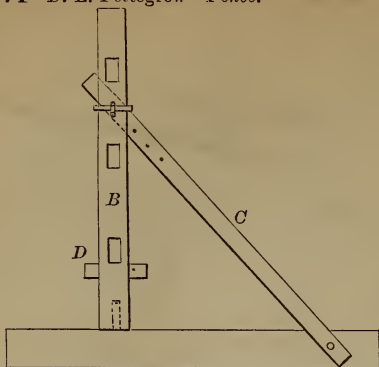
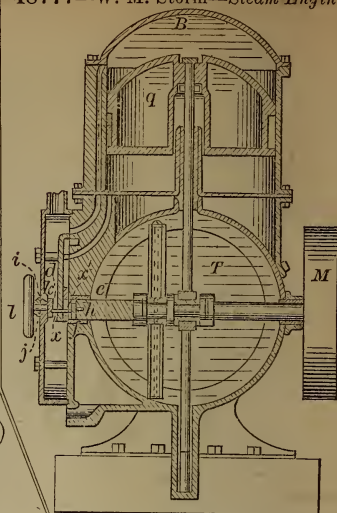
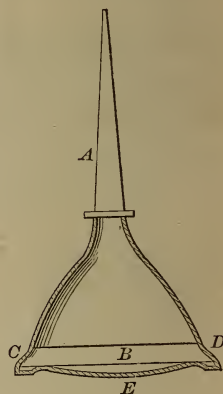
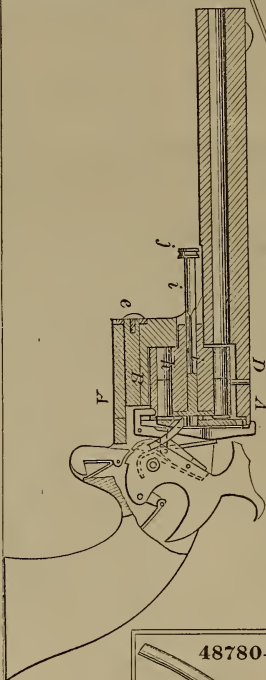
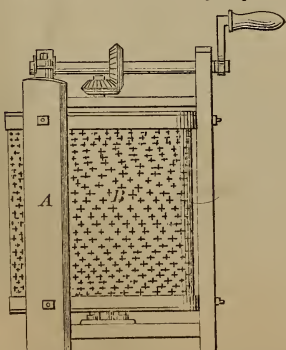
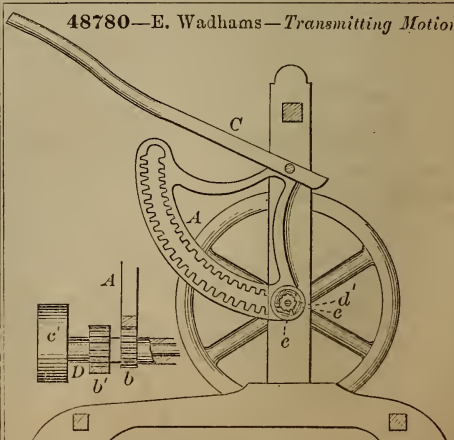
48772—P. Martin—*Carburettng Air.*



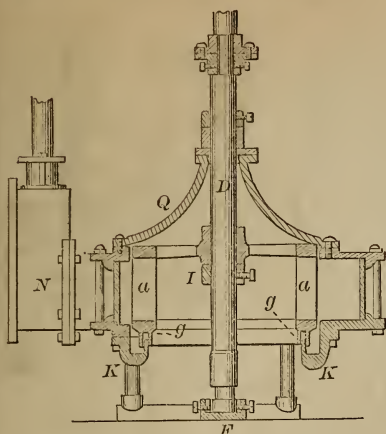
Store Grate.

48773—J. G. Clarke—

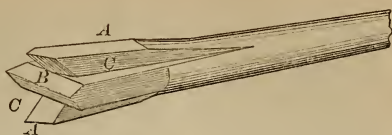


48774—D. L. Pottegrew—*Fence.*48777—W. M. Storm—*Steam Engine.*48778—S. H. Wheeler—*Measuring Faucet.*48776—J. Sangster—*Lubricating Cup.*48775—L. G. Kodier—*Fire Arm.*48779—O. Hase—*Skinning Vegetables.*48780—E. Wadhams—*Transmitting Motion.*

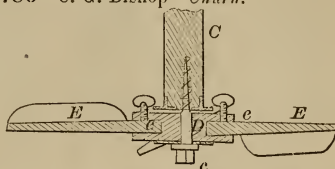
48781—J. A. & A. Allen—*Water Wheel.*



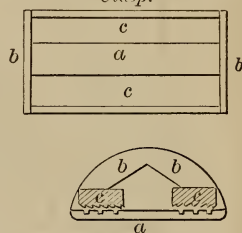
48785—W. Bickel—*Rock Drill.*



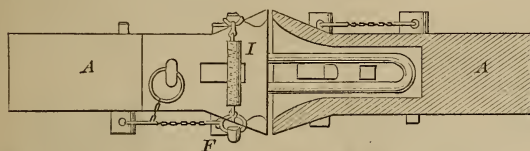
48786—C. G. Bishop—*Churn.*



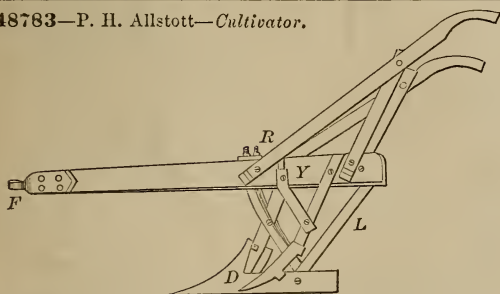
48784—A. D. Ansell—*Belt Clasp.*



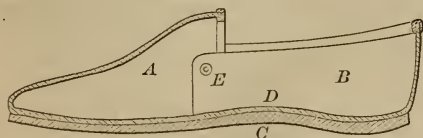
48787—J. W. Boughton—*Car Coupling.*



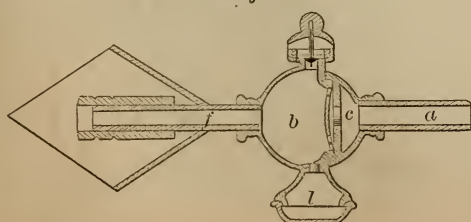
48783—P. H. Allstott—*Cultivator.*



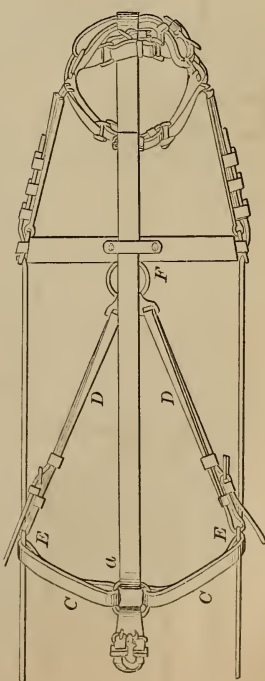
48788—D. Bowker—*Carpet Slipper.*

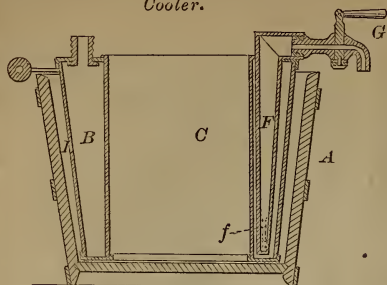
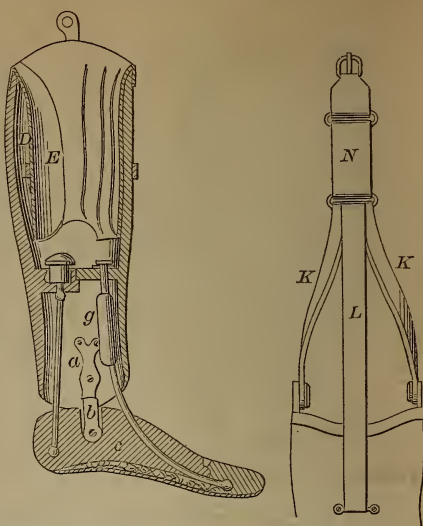
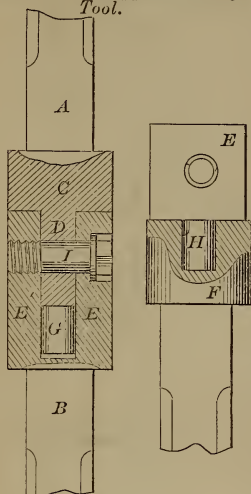
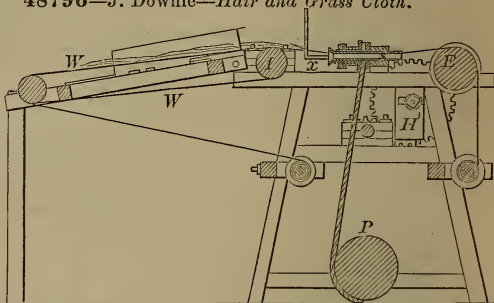
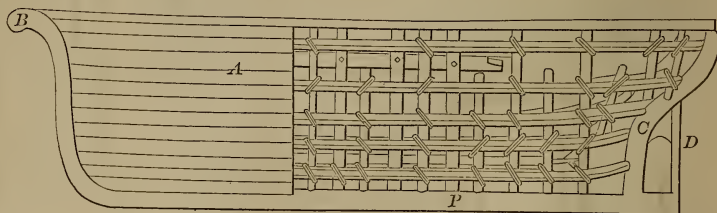
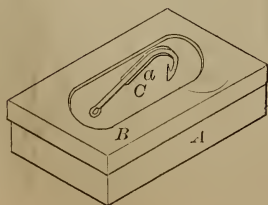
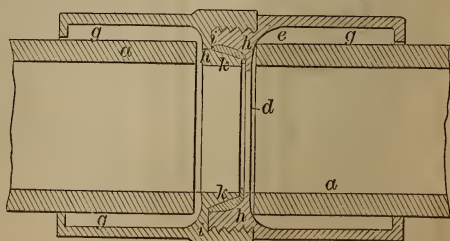


48789—C. Bullock—*Inhaling Tube.*

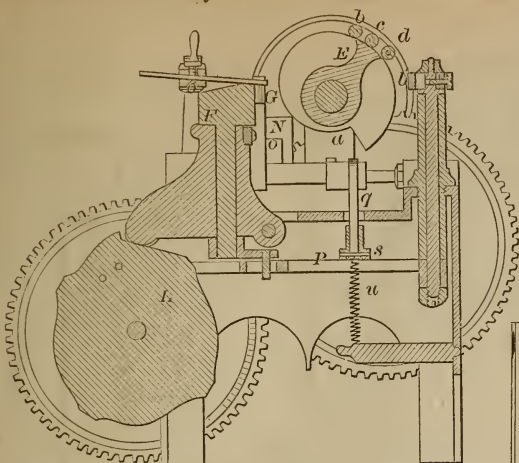


48790—J. Calkins—*Harness.*

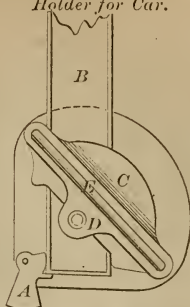


48791—Chollar & Cunningham—*Beer Cooler.*48792—J. Condell—*Artificial Leg.*48793—D. G. Coppin—*Boring Tool.*48796—J. Downie—*Hair and Grass Cloth.*48795—J. P. Curry—*Sailing Vessel.*48794—C. O. Crosby—*Box Cover.*48797—W. Dutemple—*Pipe Coupling.*

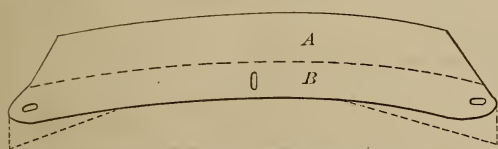
48798—L. H. Dwelley—Horse Shoe Nail.



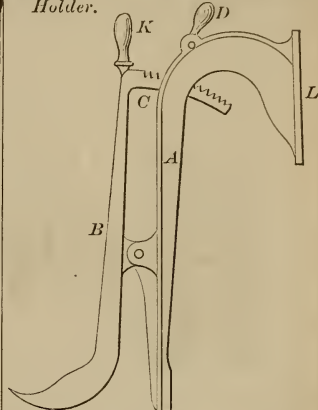
48799—E. A. Eddy—Stake Holder for Car.



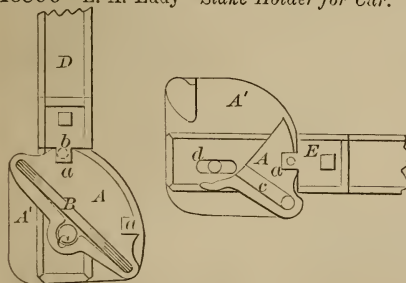
48802—A. A. Evans—Shirt Collar.



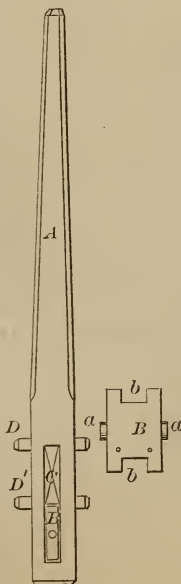
48801—J. Ellison—Boot and Shoe Holder.



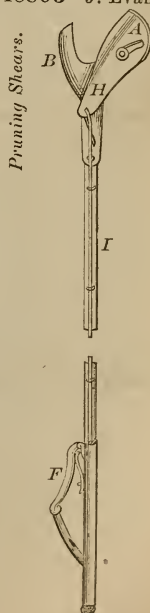
48800—E. A. Eddy—Stake Holder for Car.



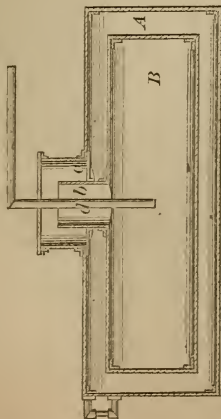
48804—J. Fecker—Saw Mill.



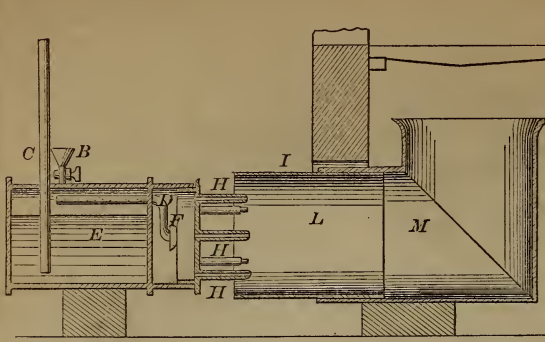
48803—J. Evans—Pruning Shears.



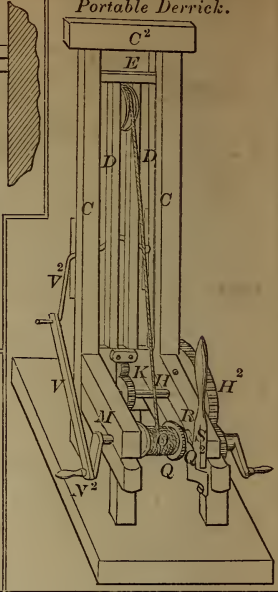
48805—H. Gerner—Steam Boiler.



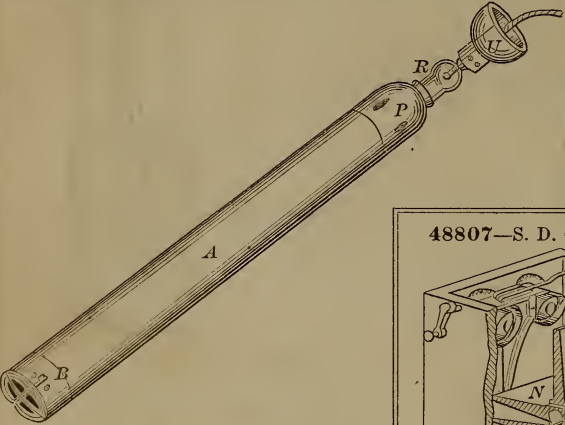
48806—H. Gerner—*Furnace Blower.*



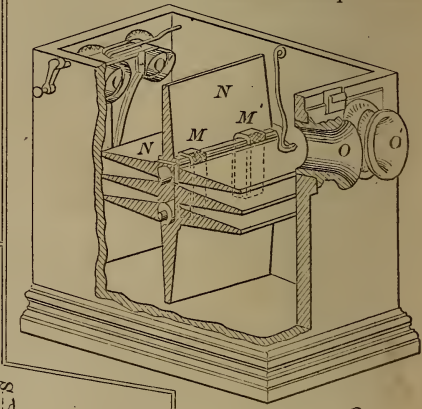
48808—J. Greives—*Portable Derrick.*



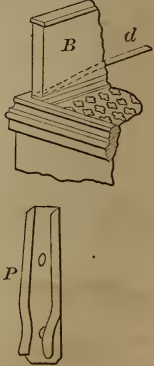
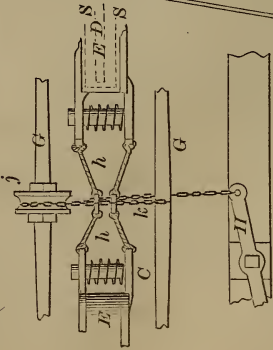
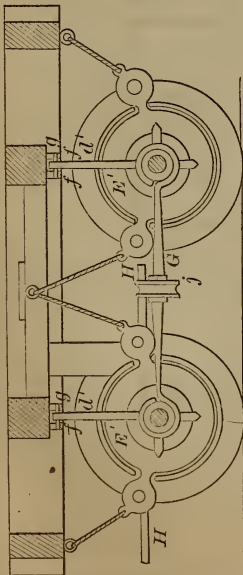
48809—J. Greives—*Well Borer.*



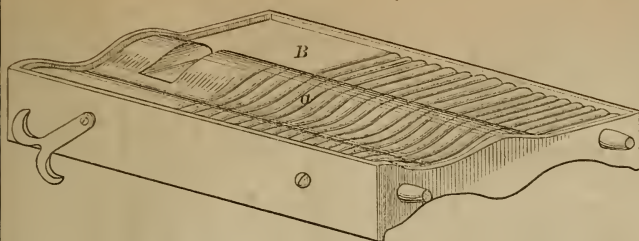
48807—S. D. Goodale—*Stereoscope.*



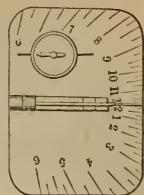
48810—C. H. Gustin—*Car Brake.*



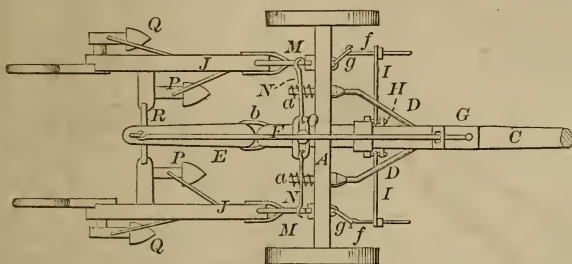
48811—L. B. Hartt—Wash Board.



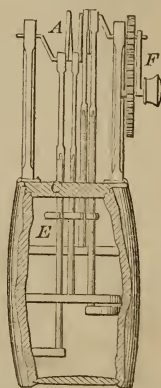
48812—
H. H. Hempler—
Sun Dial.



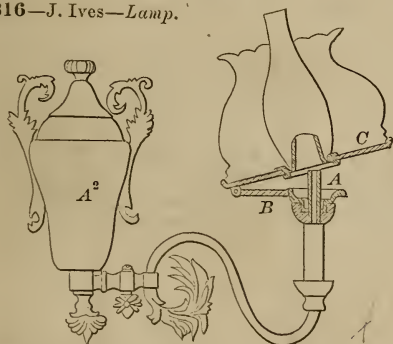
48817—C. M. Jenne—Cultivator.



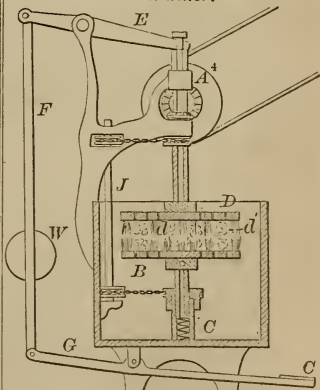
48815—H. Hutchison—
Churn.



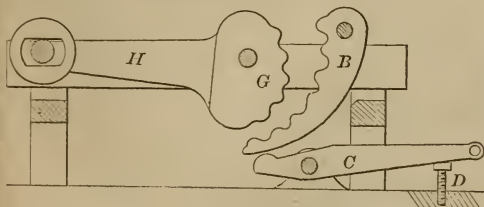
48816—J. Ives—Lamp.



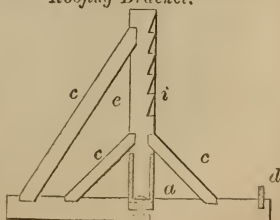
48814—Hotchkiss & Eaves—Dish
Washer.



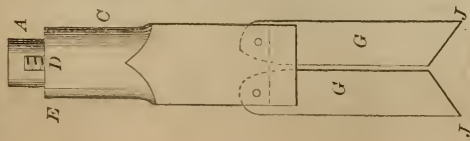
48813—S. F. Hodge—Rock Crusher.



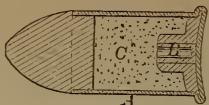
48818—C. A. Kirkpatrick—
Roofing Bracket.



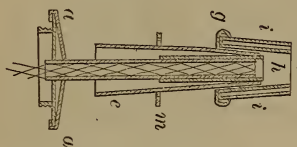
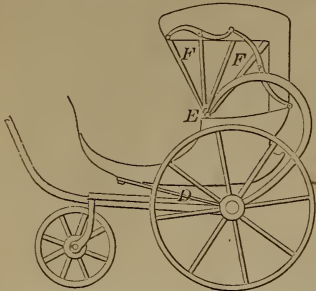
L. G. Marshall—Drill.



48820—E. Martin—Metallic Cartridge.

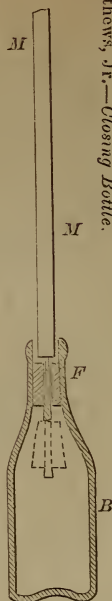


48821—O. Mather—Children's Carriage.

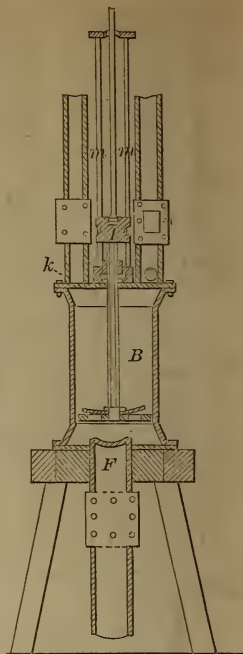
48824—R. S. Merrill—
Lamp Burner.

48822—

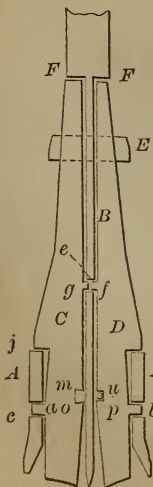
J. Mathews, Jr.—Closing Bottle.



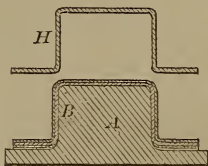
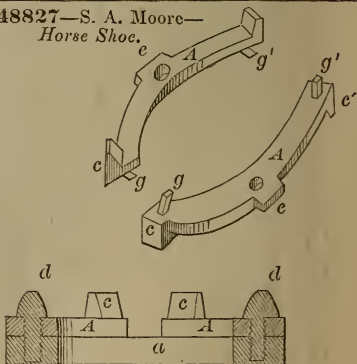
48826—G. E. Mills—Pump.



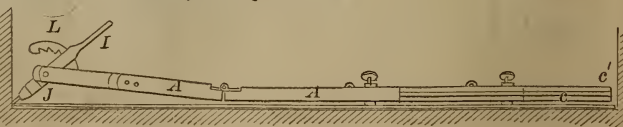
48825—W. T. Mersereau—Stair Rod.

48823—
J. M. May—
Rock Drill.

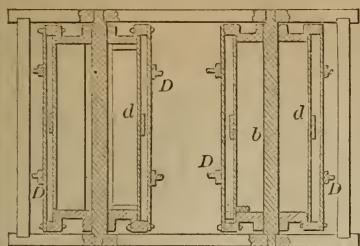
48828—E. Morris—Hat.

48827—S. A. Moore—
Horse Shoe.

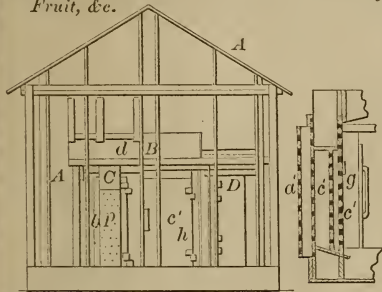
48829—G. G. Mudge—Carpet Stretcher.



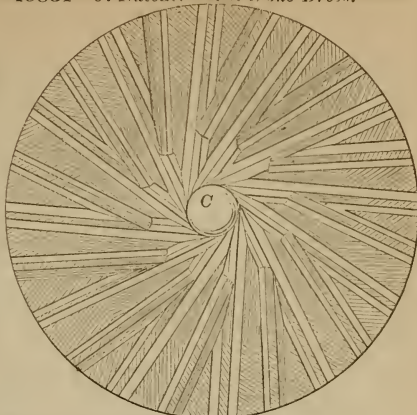
48830—L. Myers—*Freight Car.*



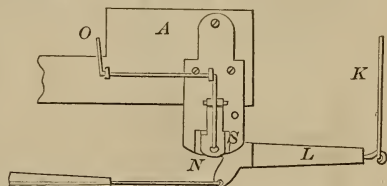
48833—E. F. Olds—*House for Preserving Fruit, &c.*



48831—G. Natcher—*Mill Stone Dress.*

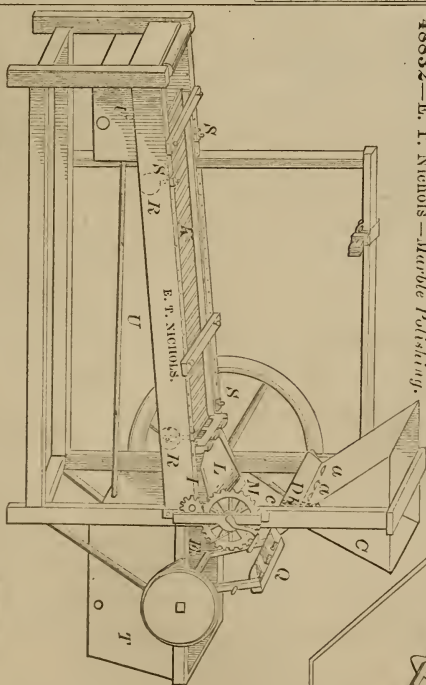
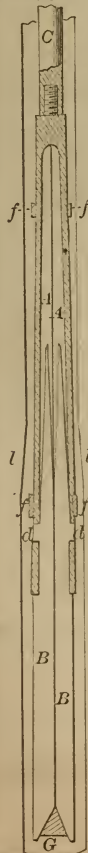


48834—W. B. Parsons—*Harvester Rake.*



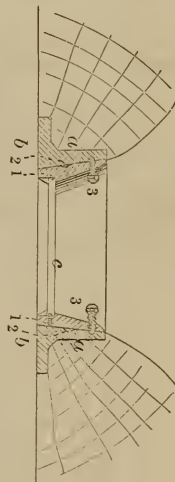
48835—

L. G. Peck—*Well Drill.*

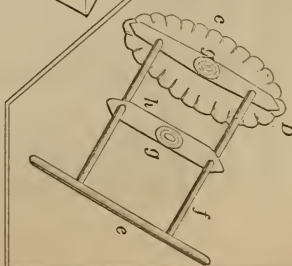


48832—E. T. Nichols—*Marble Polishing.*

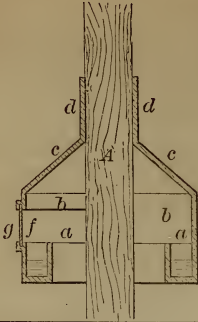
48836—C. Perley—*Deck Light for Vessels.*



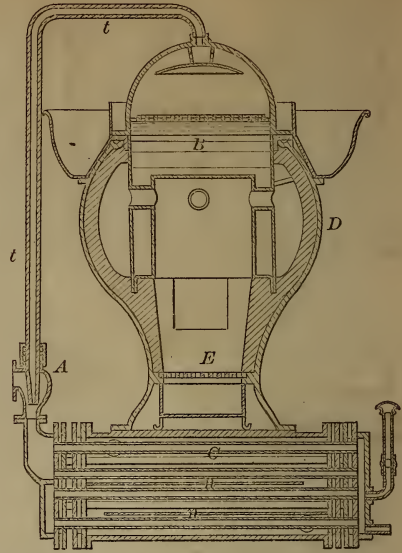
48837—O. Reeves—*Washing Machine.*



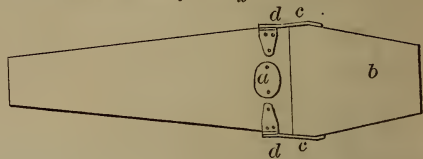
48838—A. T. Ring—Tree Protector.



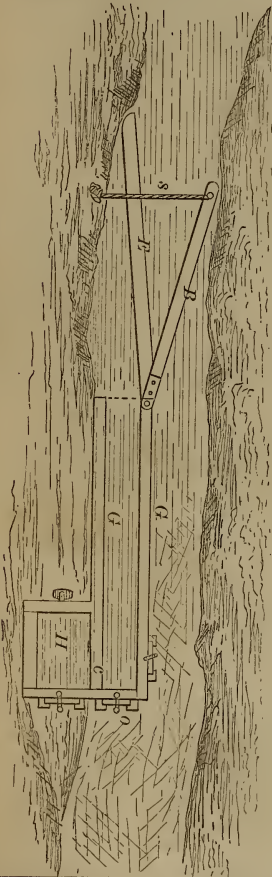
48839—J. F. Rochow—Water Apparatus.



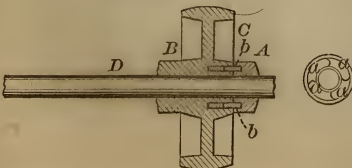
48842—J. C. Seelye—Coffin Lid.



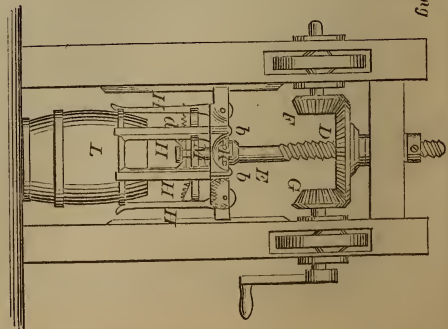
48841—T. S. Scoville—Obtaining Oil from Running Streams.



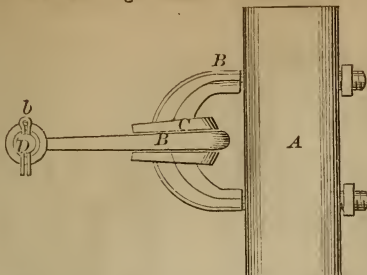
48840—P. Rodier—Sewing Machine Pulley.



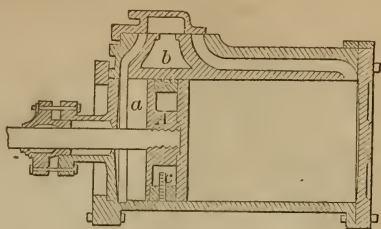
48843—H. C. Sherman—Driving Hoops on Casks.



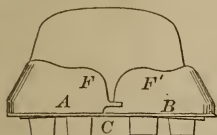
48844—A. Shogren—*Plow Clevis.*



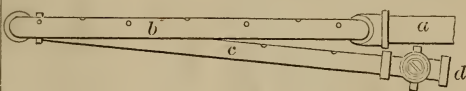
48851—N. P. Stevens—*Steam Carriage Piston.*



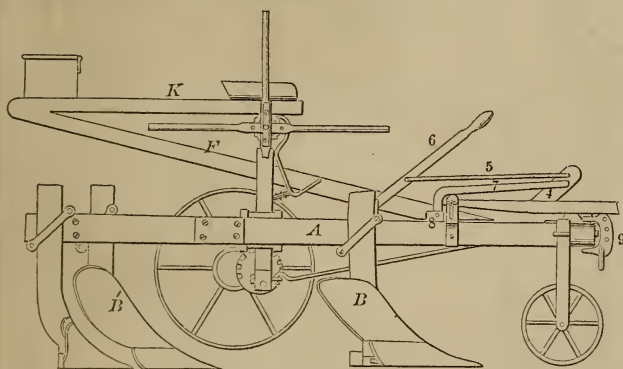
48845—T. Skeleton—*Horse Shoe.*



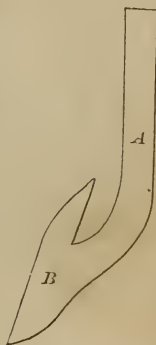
48850—J. W. Stevens—*Steam Boiler.*



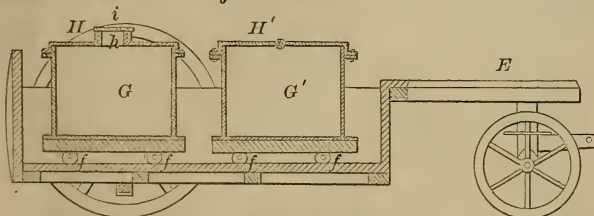
48846—J. B. Skinner—*Gang Plow.*



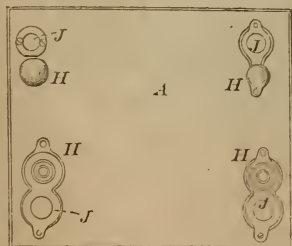
48849
M. A. Spink—*Stubble Cutter.*



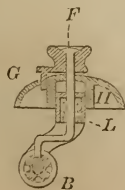
48847—R. A. Smith—*Night Soil Cart.*



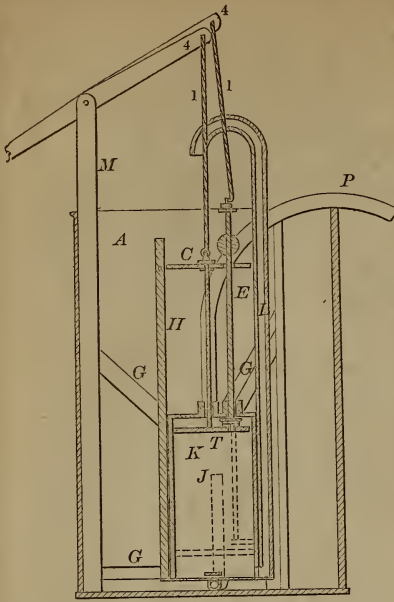
48852—N. D. Stoops—*Sewing Machine Caster.*



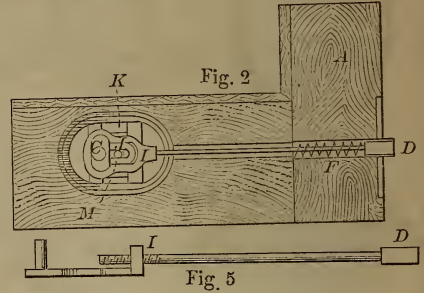
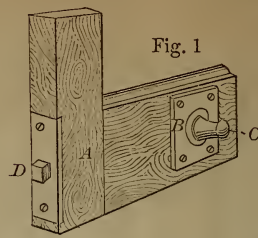
48848—G. K. Snow—*Paper Collar Envelope.*



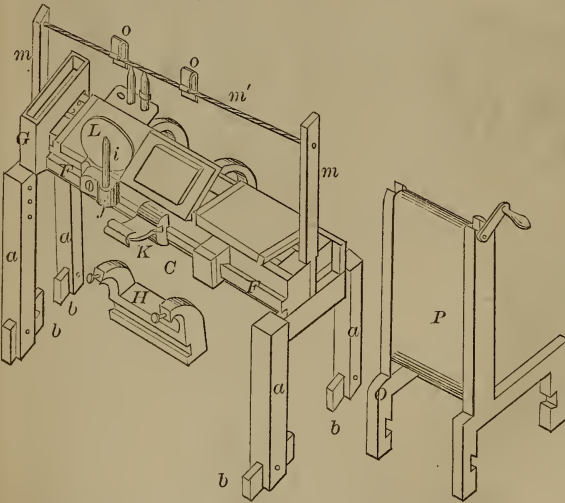
48853—A. W. Todd—Steam Pump.



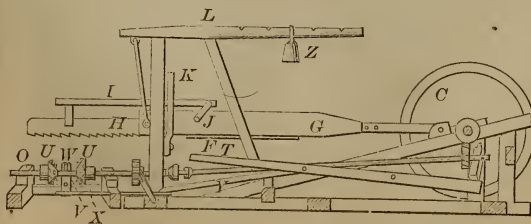
48856—A. Westcott—Sash Fastener.



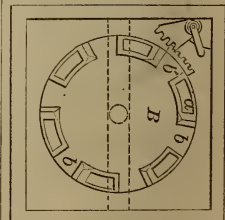
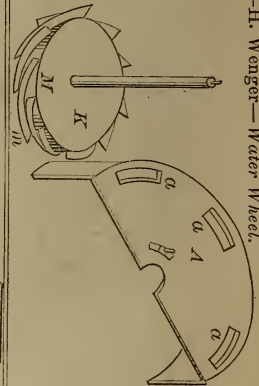
48854—S. Ustick—Invalid's Table.



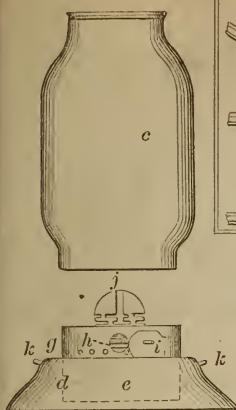
48857—G. Westinghouse—Sawing Machine.



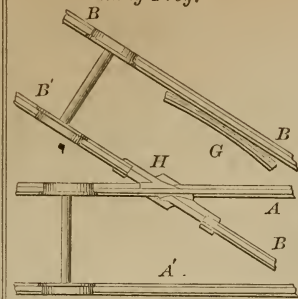
48855—H. Wenger—Water Wheel.



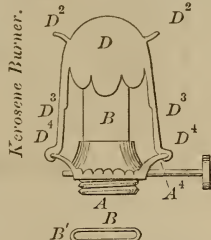
48858—W. Westlake—
Lantern.



48859—W. Wharton, Jr.—
Railway Frog.

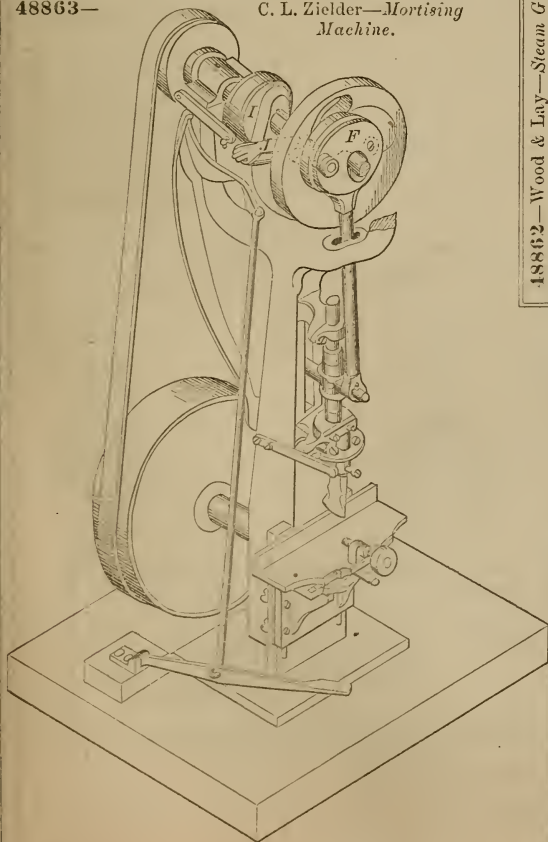


48860—S. R. Wilnot—
Kerosene Burner.

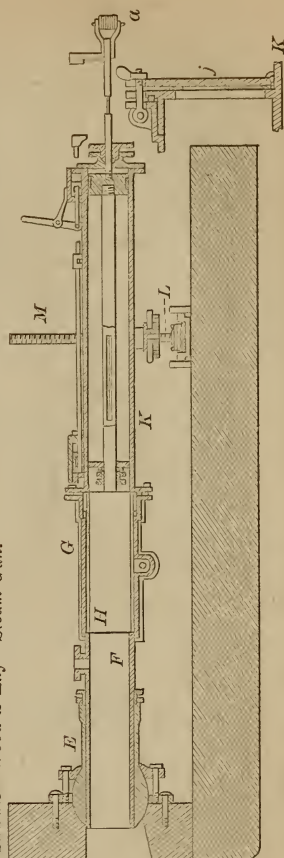


48863—

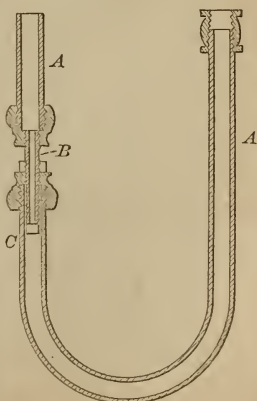
C. L. Zielder—Mortising
Machine.

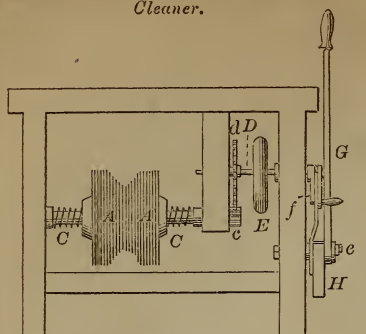
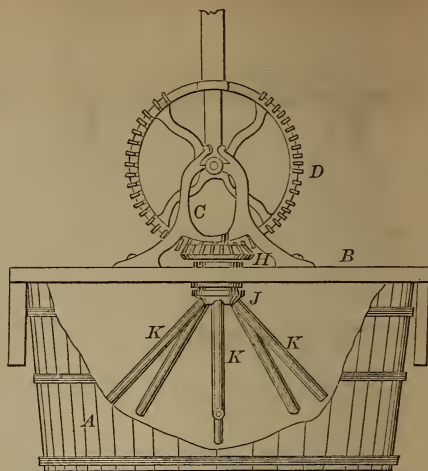
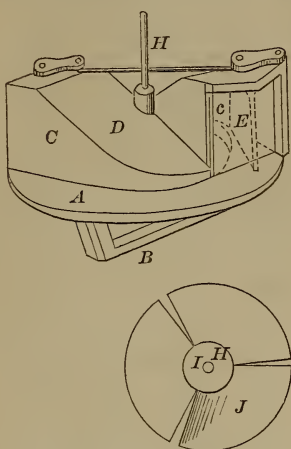
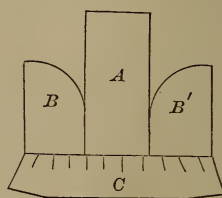
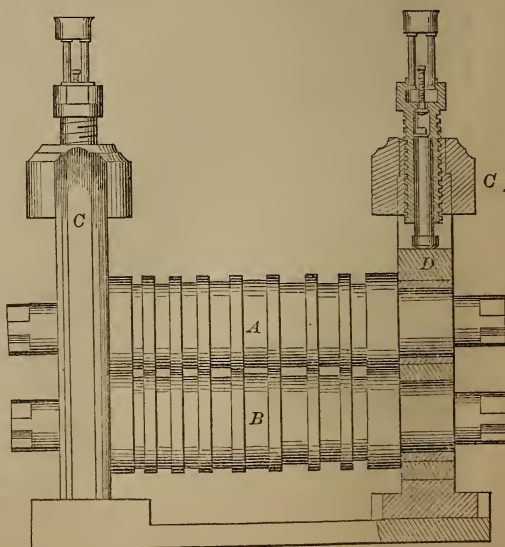
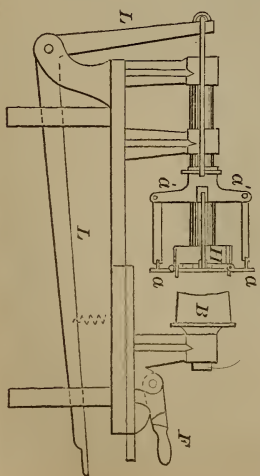


48862—Wood & Lay—Steam Gun.

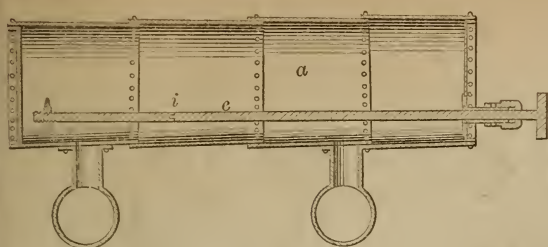


48861—J. Wood—Fluid
Ejector.

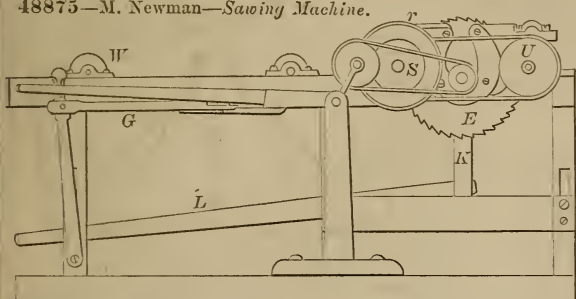


48864—T. C. Andrews—*Boot and Shoe Cleaner.*48865—V. R. David—*Washing Machine.*48866—L. C. Fairchild—*Water Wheel.*48867—E. Hill—*Lady's Hood.*48868—J. Holmes—*Rolling Bars.*48869—E. S. Jeffery—*Forming Basket.*

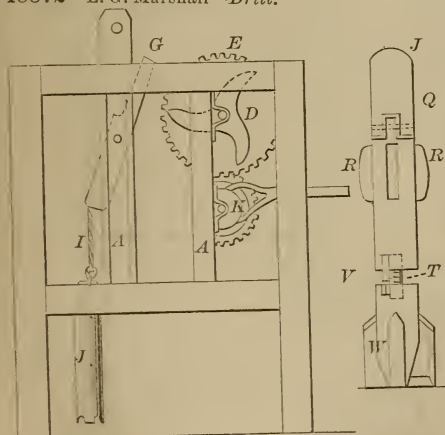
48870—T. J. Jones—*Steam Boiler.*



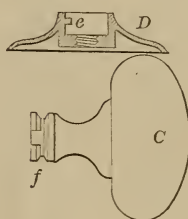
48875—M. Newman—*Sawing Machine.*



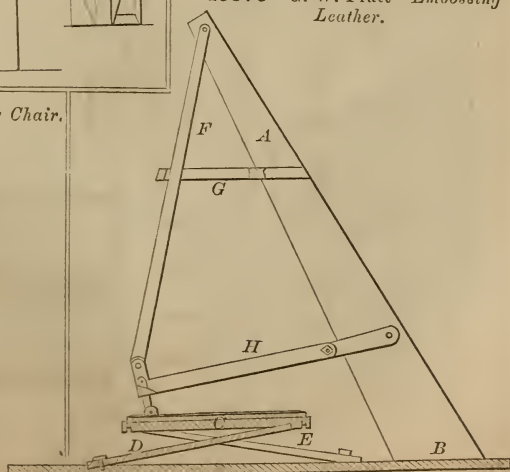
48872—L. G. Marshall—*Drill.*



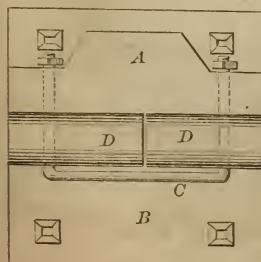
48874—W. T. Munger—*Door Knob.*

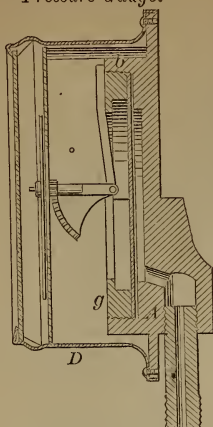
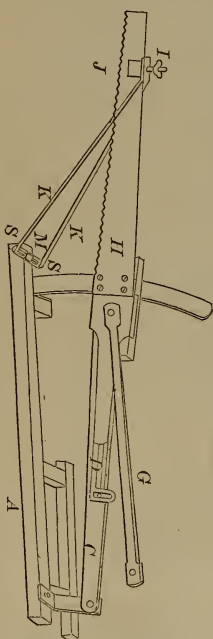


48876—G. W. Pratt—*Embossing Leather.*

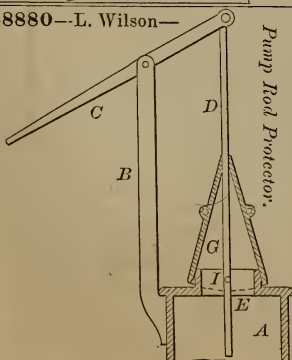
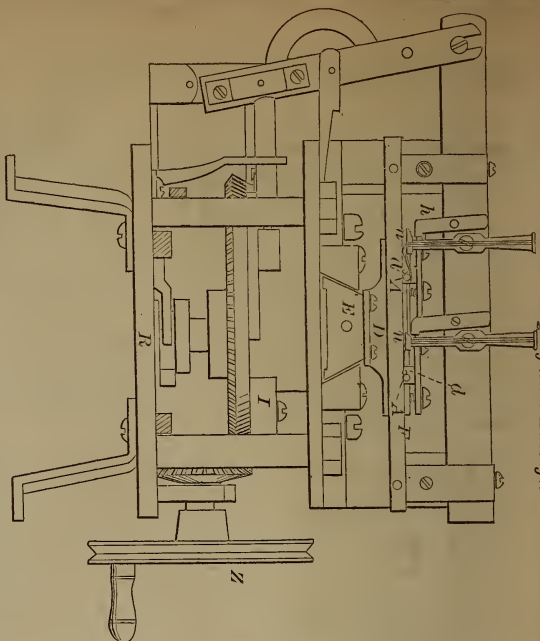
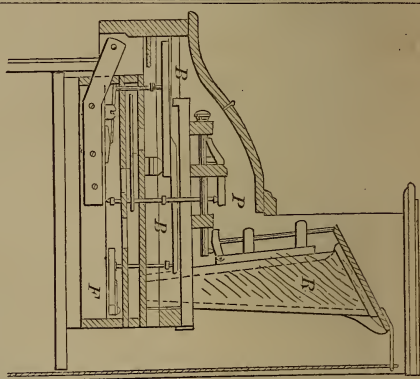
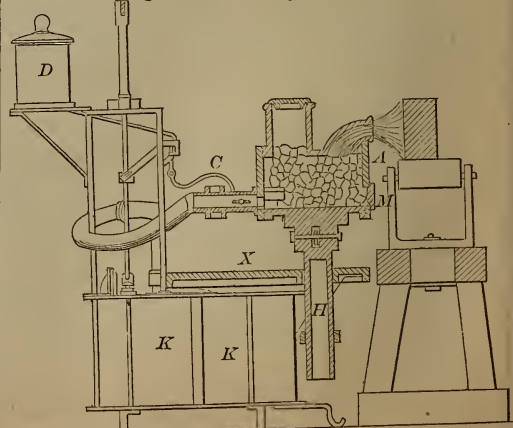


48873—B. T. Milburn—*Railway Chair.*

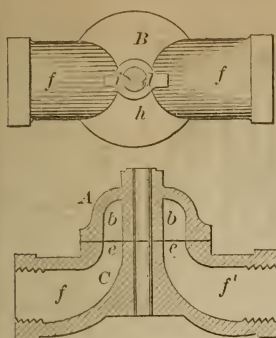


48877—R. C. Robbins—
Pressure Gauge.48879—C. P. Wiggins—*Sawing Machine.*

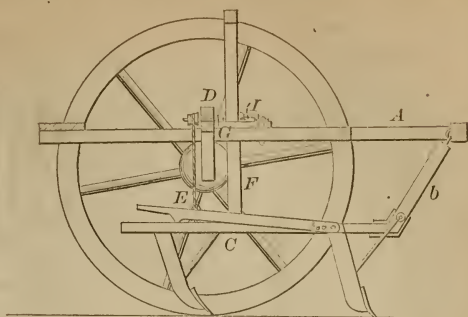
48880—L. Wilson—

Pump Rod Protector.48878—Westcott & Walcott—*Knitting Shoe Lacing.*48881—J. Gilmour—*Harmonium.*48882—P. Hugon—*Carbonizing Wood.*

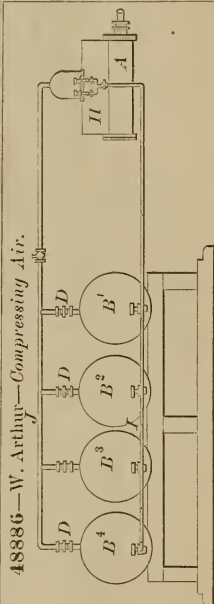
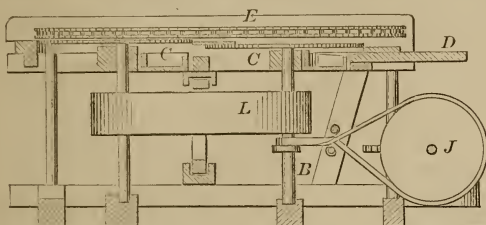
48883—D. D. Allen—*Valve*.



48884—W. D. Ament—*Cultivator*.



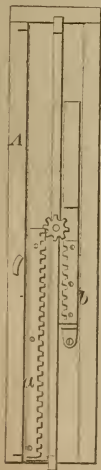
48885—S. E. Anthony—*Shingle Machine*.



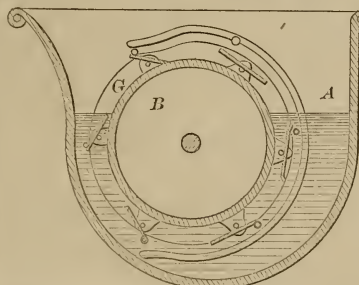
48886—W. Arthyr—*Compressing Air*.

48889—

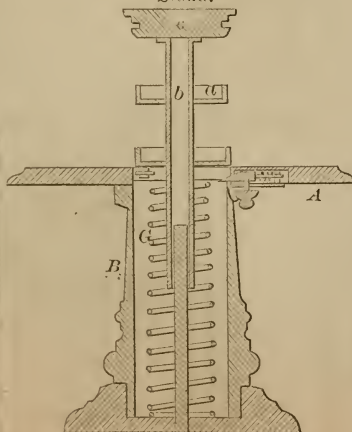
J. R. Baker—*Operating Window Sash*.



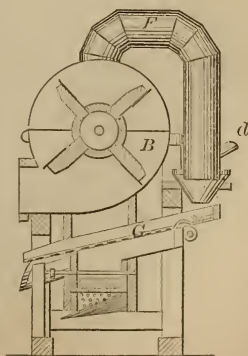
48887—J. B. Atwater—*Amalgamator*.



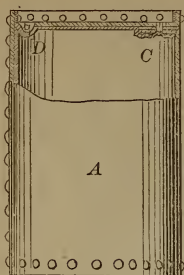
48888—J. B. Atwater—*Lathe's Work Stand*.



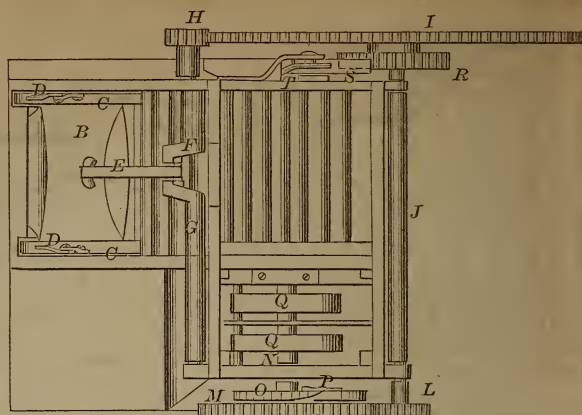
48890—H. A. Barnard—*Grain Separator*.



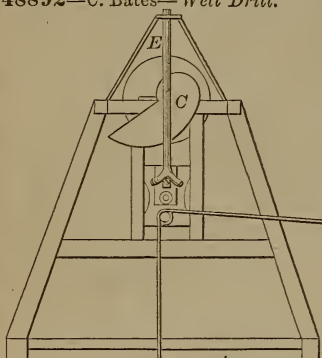
48891—
Barnum & McNoah—
Vessel for Petroleum.



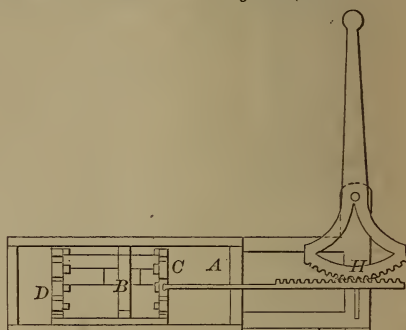
48894—W. Beaton—Washing Machine.



48892—C. Bates—Well Drill.



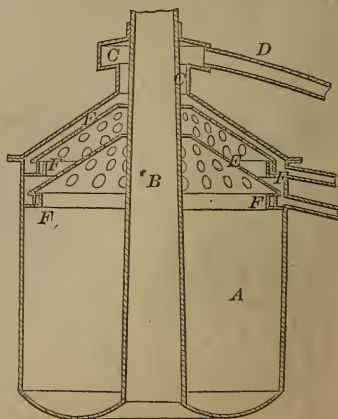
48893—I. N. Beals—Washing Machine.



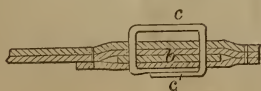
48895—W. Beers—Carriage Axle.



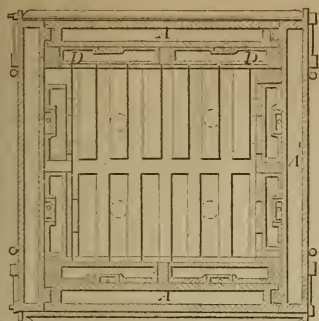
48896—Bibby & Lapham—Petroleum Still.



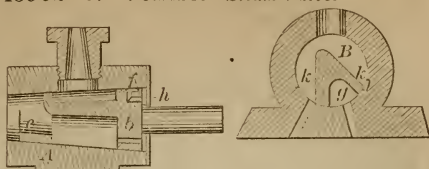
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Gaiter.



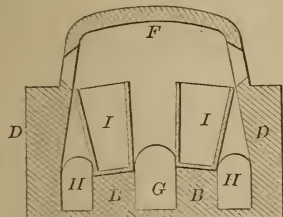
48898—M. Brune—Preserving Food.



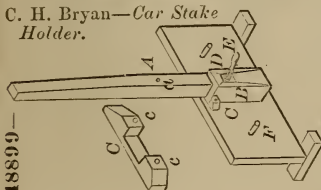
48902—J. W. Carhart—Steam Valve.



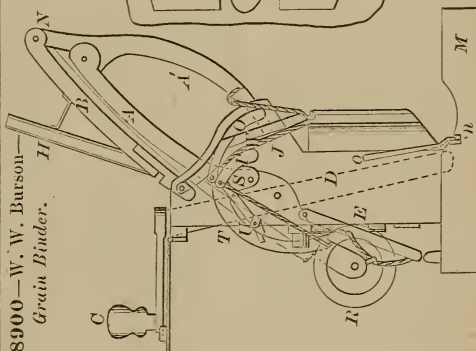
48903—J. Carroll—Glass Furnace.



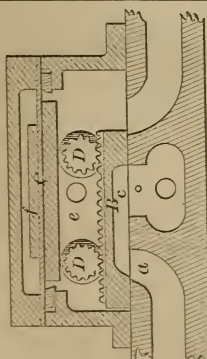
C. H. Bryan—Car Stake Holder.



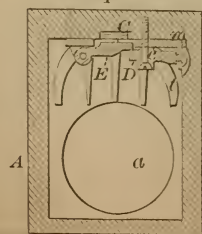
48900—W. W. Burson—Grain Binder.



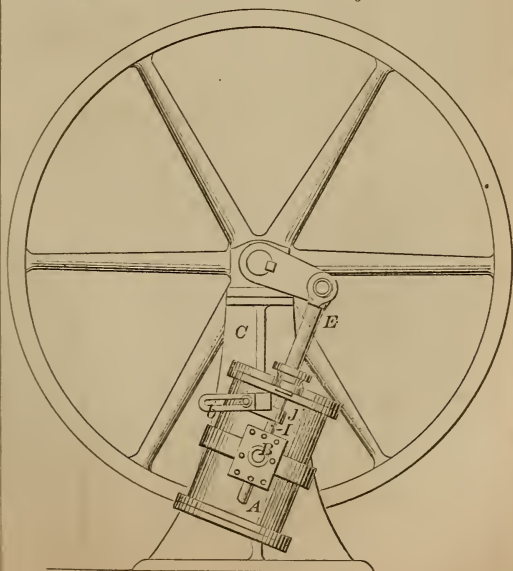
48901—A. S. Cameron—Slide Valve.

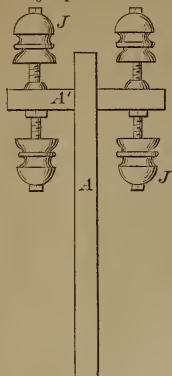
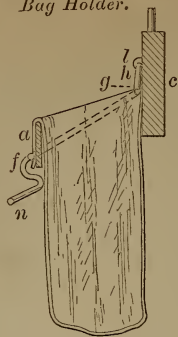


48905—W. F. Caswell—Animal Trap.



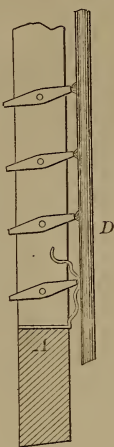
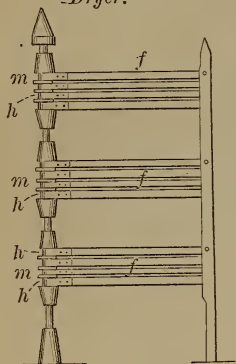
48904—H. F. Carter—Valve Gearing.



48906—L. A. Cauvet—
Telegraph Insulator.48911—J. S. Corbin—
Bag Holder.

48908—

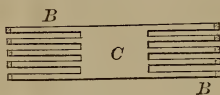
G. J. Colby—Window Shutter.

48910—S. Cole—Clothes
Dryer.

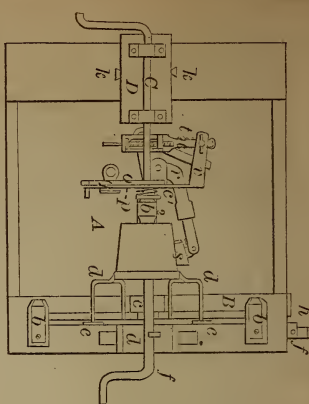
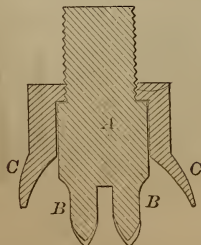
48907—G. J. Colby—Flooring.



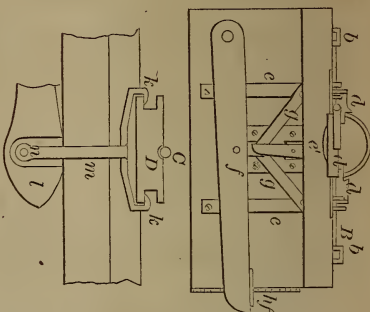
48913—G. G. Dennis—Friction Match.



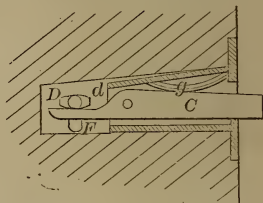
48914—J. C. Dickey—Rock Drill.



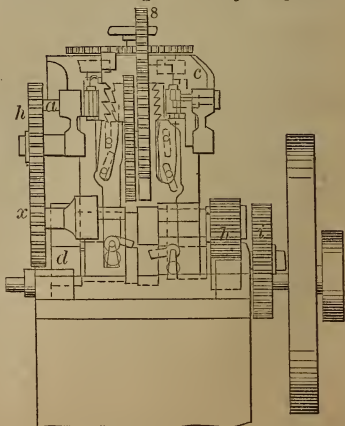
48912—S. W. Curtis—Cleaning Floor Pot.



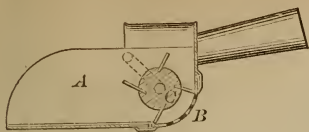
48909—G. J. Colby—Knob Latch.



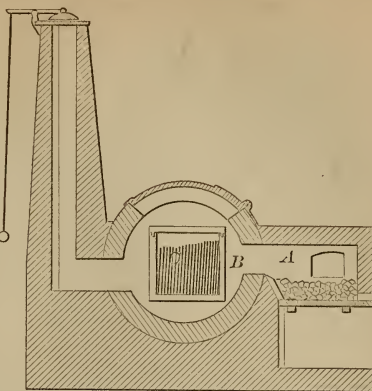
48915—J. Dodge—Rolling Irregular Forms



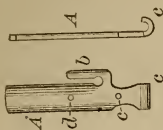
48916—J. Earnshaw—*Flour Sifter.*



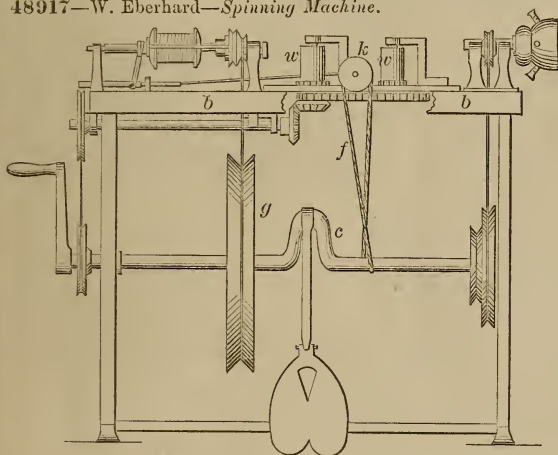
48918—J. W. Ellis—*Annealing Sheet Iron.*



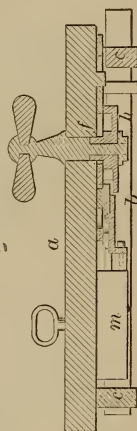
48922—A. C. Fletcher—*Bag Fastener.*



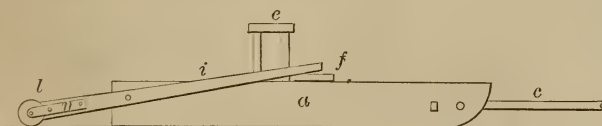
48917—W. Eberhard—*Spinning Machine.*



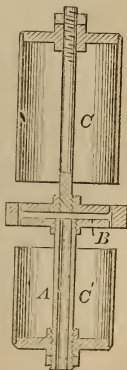
48919—J. Furel—*Safe Lock.*



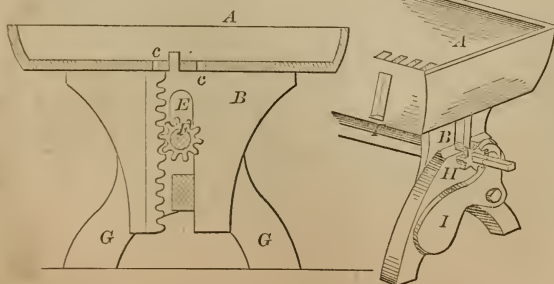
48920—E. A. Field—*Road Scraper.*

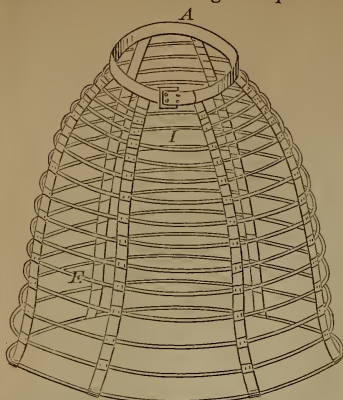


48921—A. Fitts—*Steam Whistle.*



48923—D. P. Foster—*Stove Grate.*



48924—H. Freudenburg—*Hoop Skirt.*

48925—

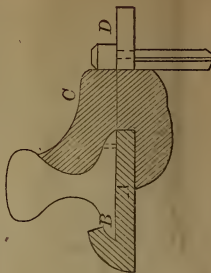
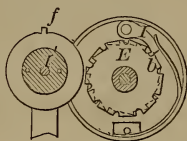
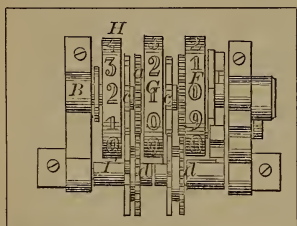
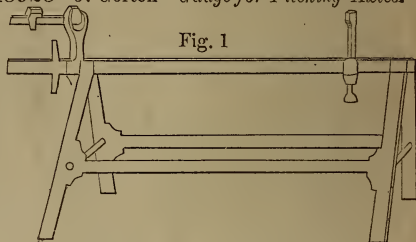
S. S. Garver—*Shutter Lock.*48926—H. J. Gilman—*Rail Coupling.*48927—V. Giroud—*Counting Register.*48928—J. Gorton—*Gauge for Pitching Axles.*

Fig. 1

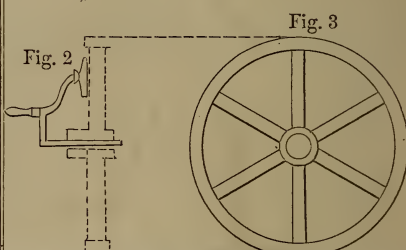


Fig. 3

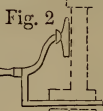
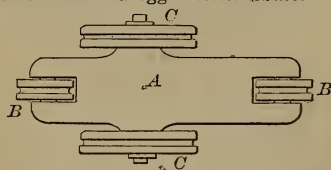
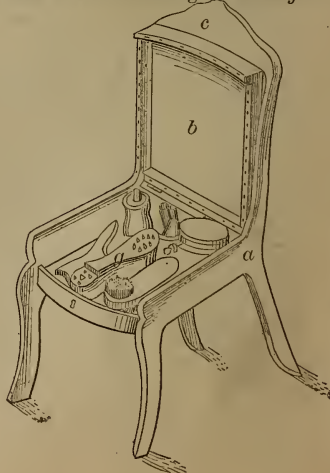
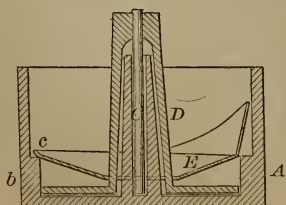
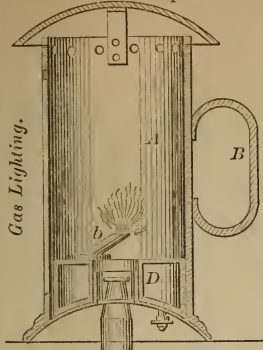


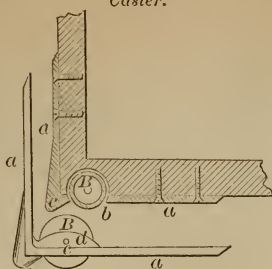
Fig. 2

48929—W. P. Gregg—*Roller Skate.*48931—F. G. Harding—*Blackening Case.*48930—I. T. Halsted—*Amalgamator.*

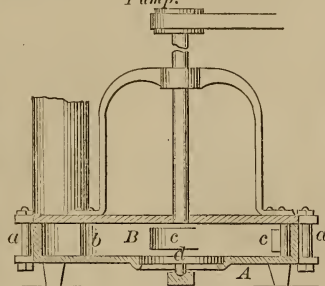
48932—J. G. Harper—



48937—W. O. Headley—Trunk
Caster.



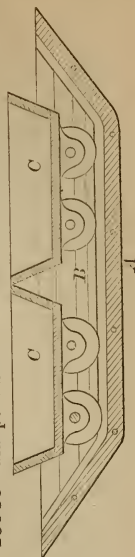
48938—Heald & Cisco—Rotary
Pump.



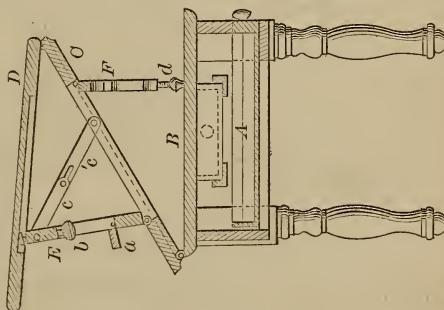
48934—B. Hart—Washing
Tumblers.



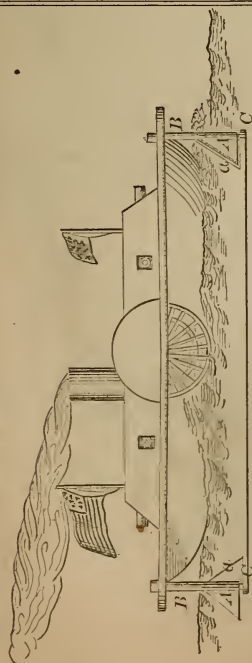
48935—Haupt & Smith—Flat Bottom Boat.



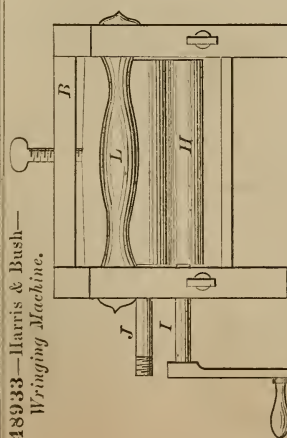
48939—W. Hemmer—Table or
Desk.



48940—J. Higbee—Rudder.

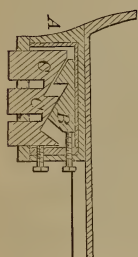
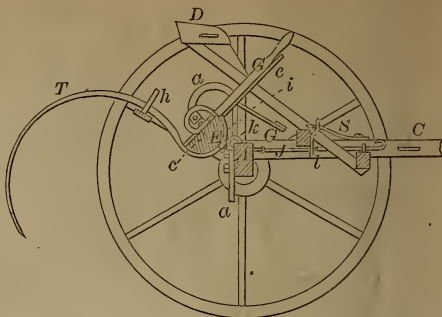
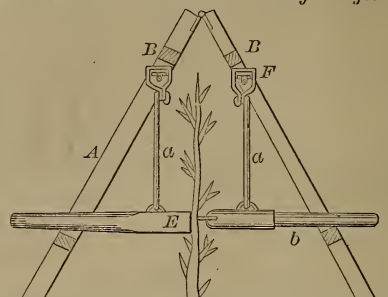
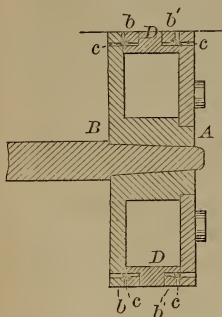
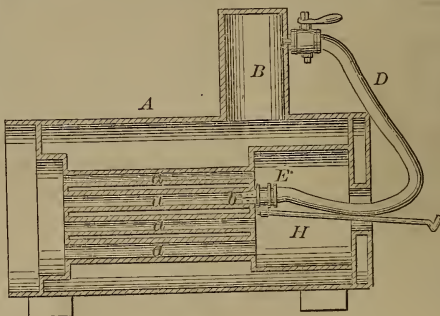
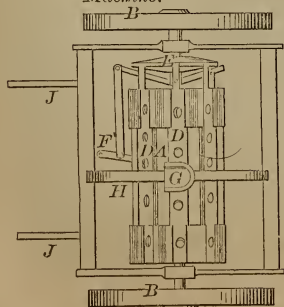
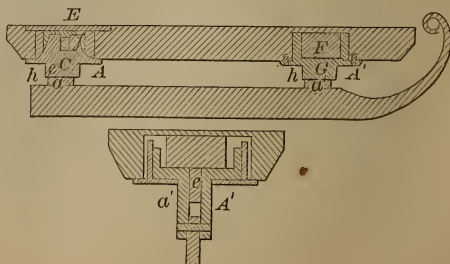


48933—Harris & Bush—
Wringing Machine.

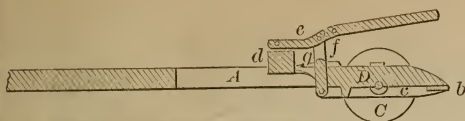


48941—P. & F. Hinkel—
For Cooling Liquids.

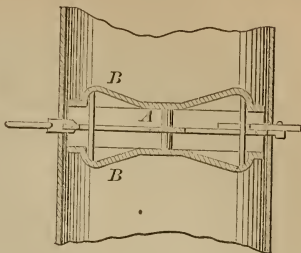


48942—S. Hittel—*Watch.*48944—J. Hollingsworth—*Horse Rake.*48943—S. Hodgins—*Boot Heel.*48946—W. C. Hooker—*Trimming Hedge.*48947—J. A. & H. A. House—*Lawn Mowing Machine.*48945—J. W. Holloway—*Piston Packing.*48948—J. J. Illingworth—*Cleaning Boiler Tubes.*48949—E. S. Jewett—*Seeding Machine.*48950—E. Johnson, Jr.—*Skate.*

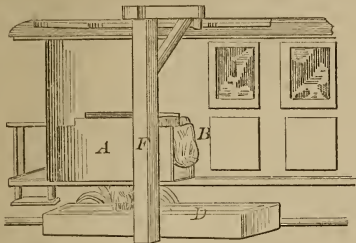
48951—W. W. Johnson—Road Scraper.



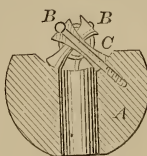
48952—C. Katham—Stove Pipe Damper.



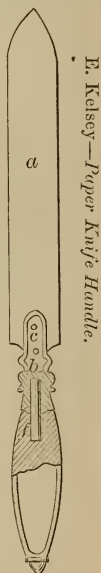
48954—W. J. Ketcham—Delivering Mails on Cars.



48958—T. Kohn—Finishing Thread.

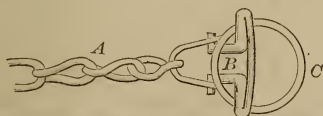


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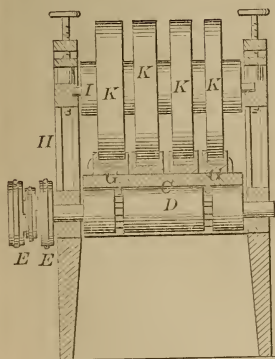


F. Kelsey—Paper Knife Handle.

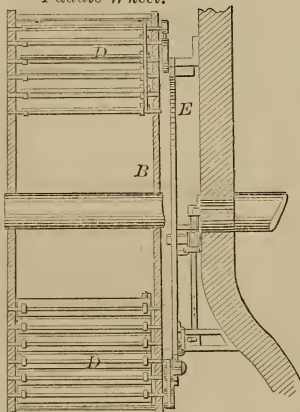
48957—H. W. Knowlton—Horse Chain.



48955—J. D. King—Pressing Tobacco.



48956—C. A. Kirkpatrick—Paddle Wheel.

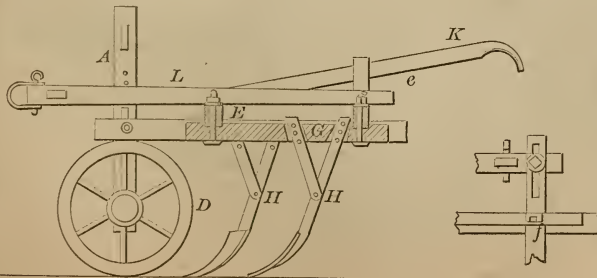


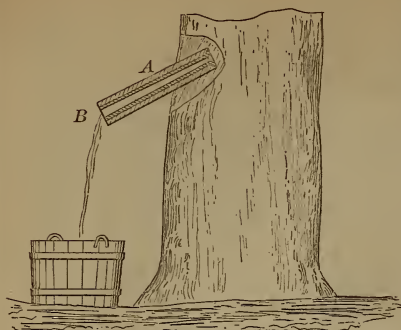
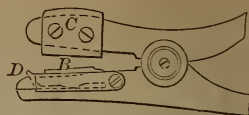
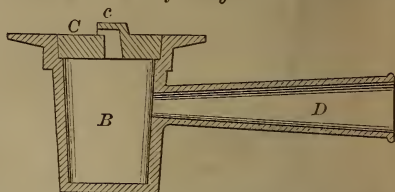
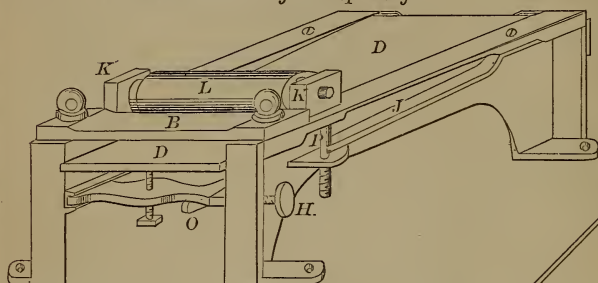
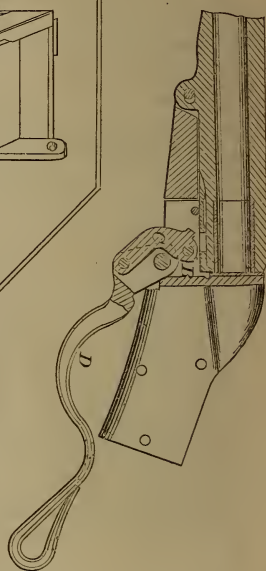
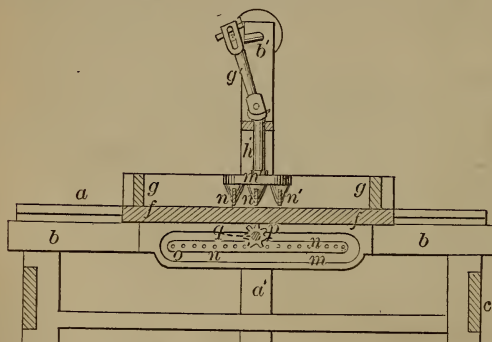
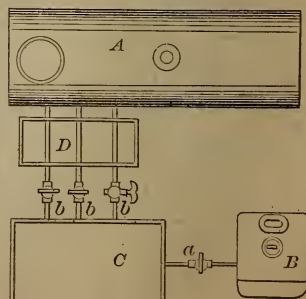
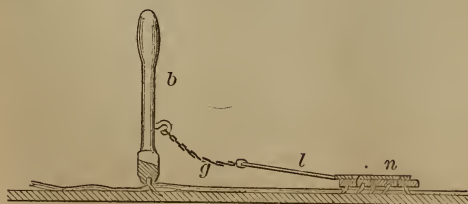
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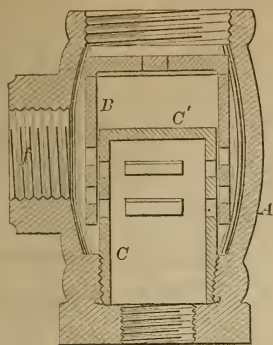
G. Leining—Sash Fastener.

48959—F. C. Leffer—Cultivator.



48961—A. Leitch—*Sap Spout.*48962—F. C. Leyboldt—*Button Hole Cutter.*48963—D. S. Loy—*Tuyere.*48964—W. S. Marsh—*Skiving and Splitting.*48966—E. Maynard—*Coverbridge Retractor.*48965—J. Massey—*Meat Chopper.*48967—E. McKinney—*Burning Petroleum.*48968—H. A. Mead—*Carpet Stretcher.*

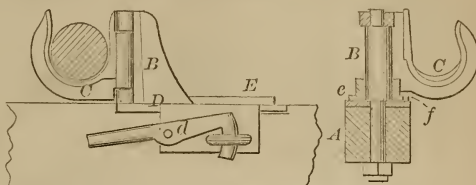
48969—S. Mills—Governor Valve.



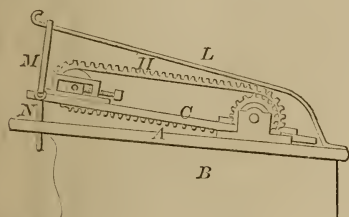
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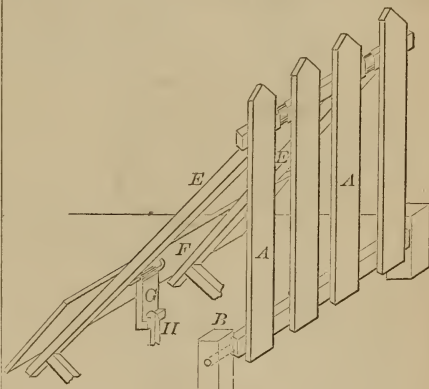
48975—J. W. Norcross—Row Lock.



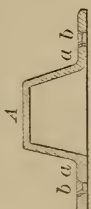
48971—W. H. Moore—Boarding Leather.



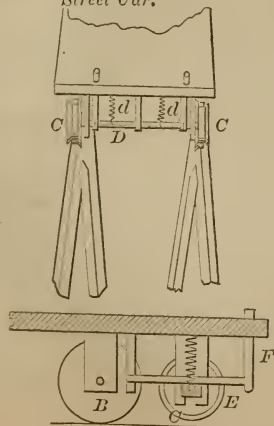
48977—A. Ralston—Flood Gate.



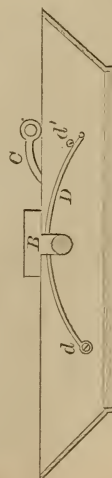
48972—E. A. More—
Oil Can Cap.



48978—J. S. Reid—Switching
Street Car.



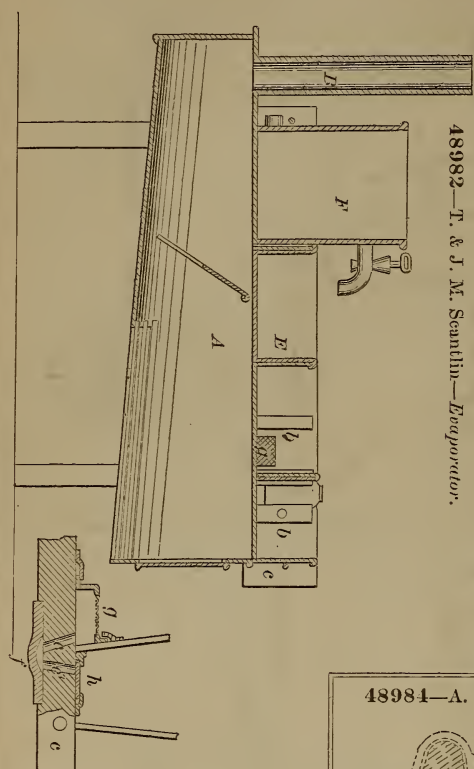
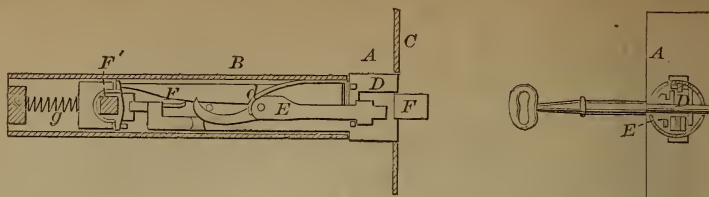
48979—F. C. Ring—Dough Kneader.



48976—P. Osgood—Railway.

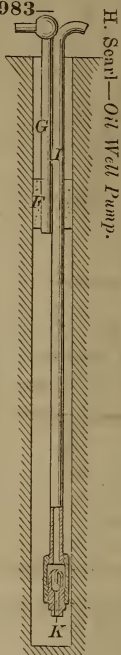


48980—F. Rudolph—Lock.



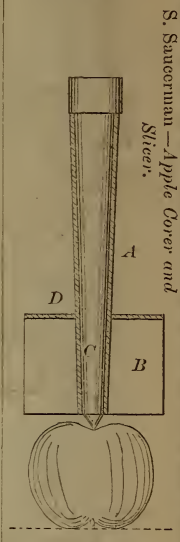
48982—T. & J. M. Scumming—Evaporator.

48983—



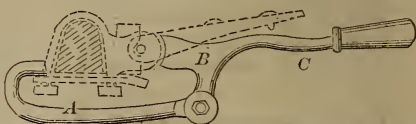
H. Scumming—Oil Well Pump.

48981—

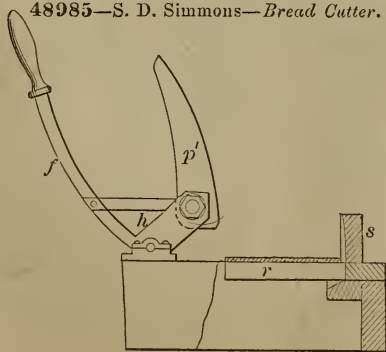


S. Saucerman—Apple Corer and Slicer.

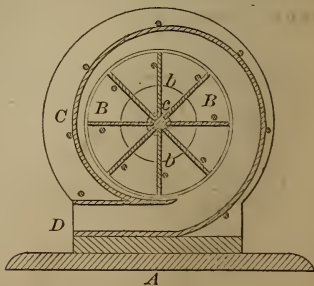
48984—A. J. Settle—Shaft Coupling Jack.



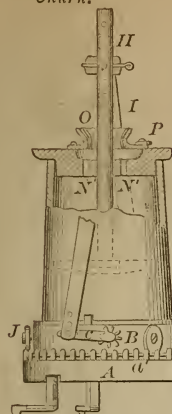
48985—S. D. Simmons—Bread Cutter.



48986—M. Smith—Turbine Fan Blower.

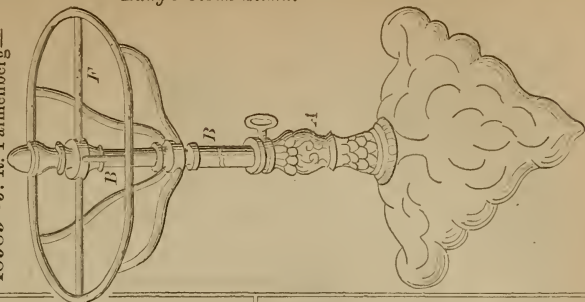


48987—H. Soggs—
Churn.

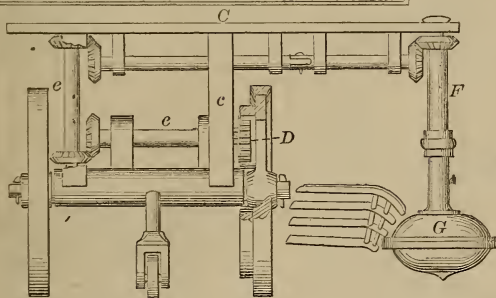
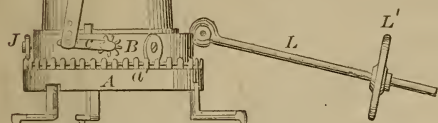
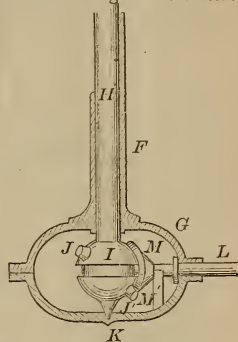


48989—J. R. Palmenberg—

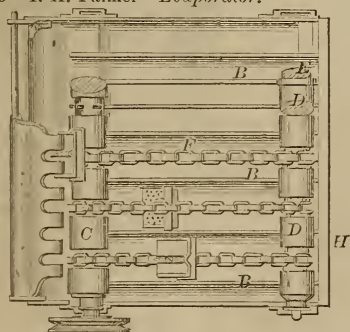
Lady's Cloak Stand.



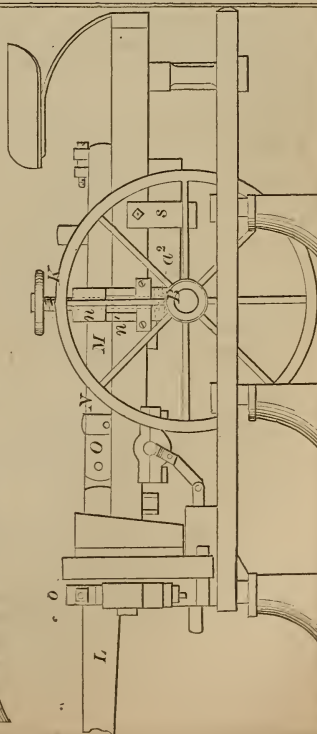
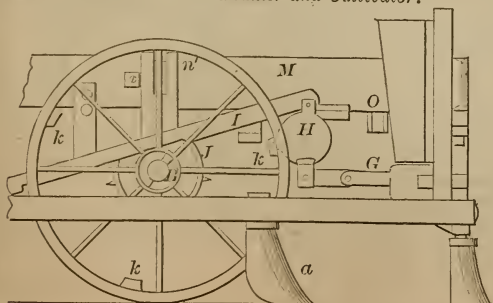
48988—E. F. Page—*Harvester.*

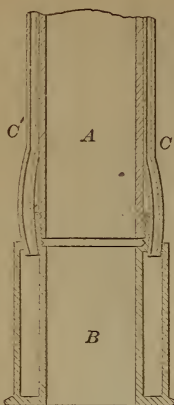
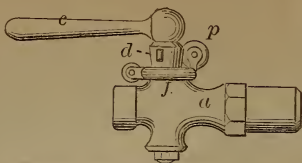
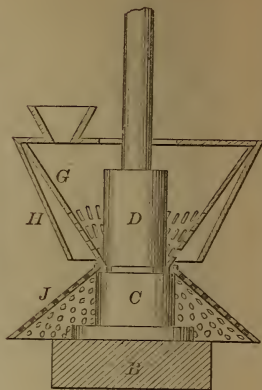
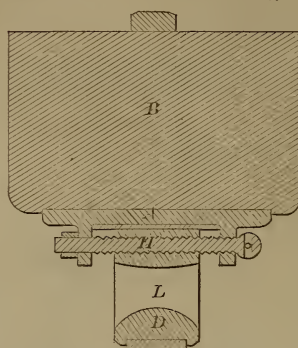
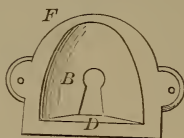
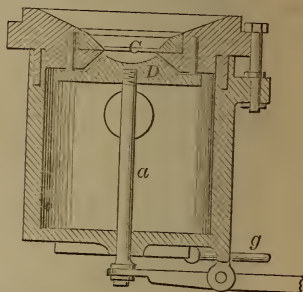
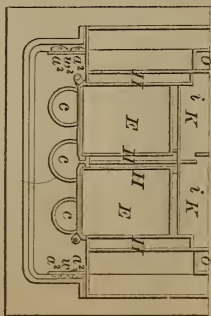
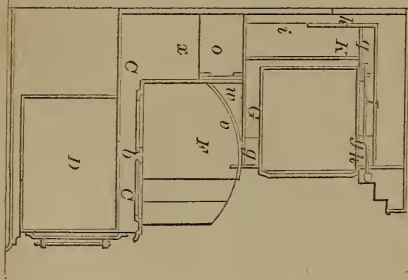
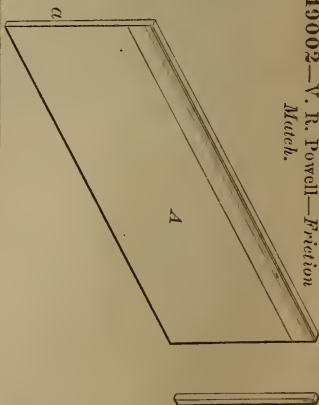


48990—I. H. Palmer—*Evaporator.*

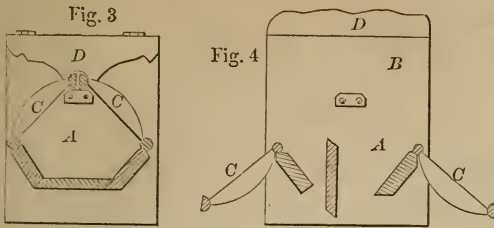


48991—J. Palmer—*Corn Planter and Cultivator.*

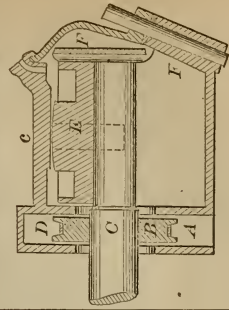


48994—G. T. Parry—*Oil Well.*48995—G. G. Percival—*Faucet.*48999—J. V. Pomeroy—*Ore Crusher.*48997—W. Perrin—*Ox Yoke.*48996—G. G. Percival—*Tumbler, Pitcher, &c.*49000—W. R. Pomeroy—*Guide to Keyhole.*48998—R. Platt—*Tuyere.*49001—M. Pond—*Cooking Range.*49002—V. R. Powell—*Friction Match.*

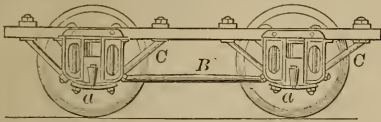
49003—A. D. Stansbury—*Sheep Rack.*



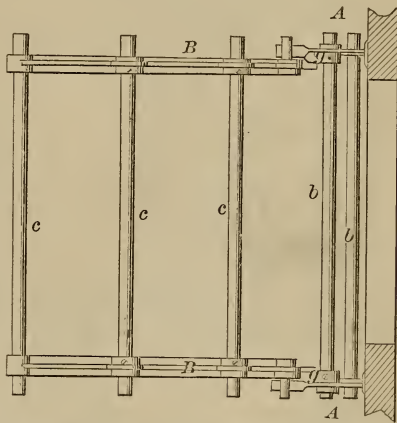
49005—J. Stephenson—*Axle Box.*



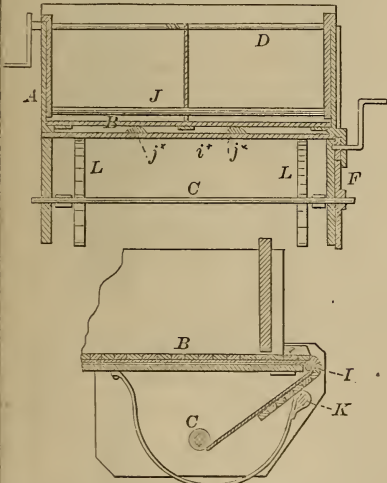
49004—J. Stephenson—*Railroad Car.*



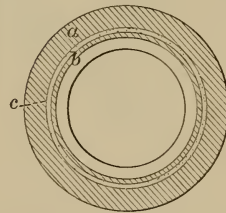
49007—J. Stimpson—*Clothes Bracket.*



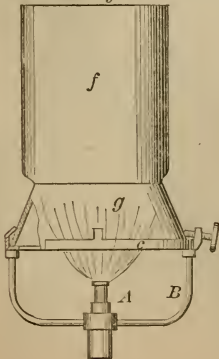
49006—J. H. Stevenson—*Unloading Wagon.*



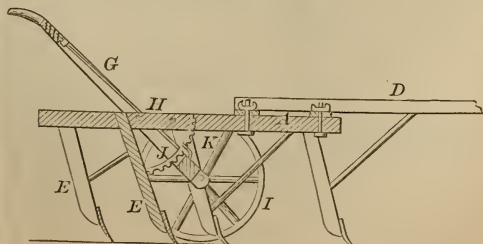
49009—B. S. Stokes—*Crucible for Metallic Bath.*



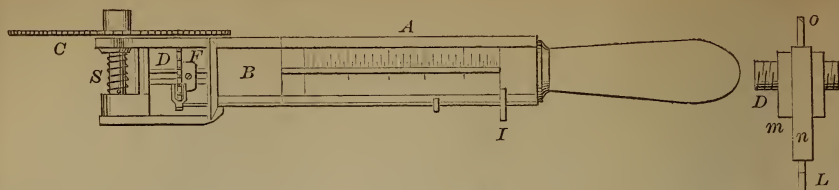
49010—J. Stratton—*Gas Burner Chimney.*



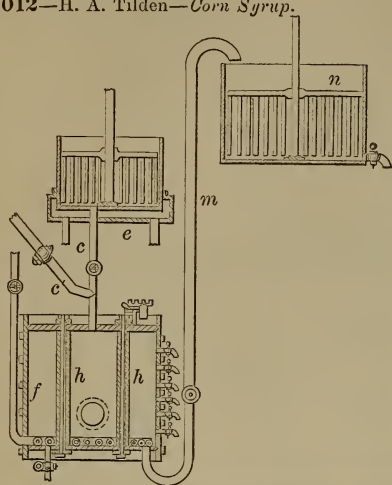
49008—G. B. St. John—*Cultivator.*



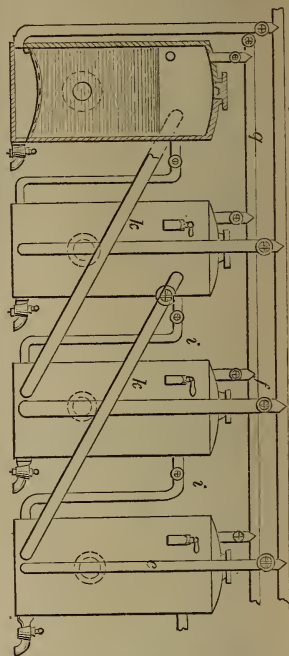
49011—G. S. Tiffany—Board Measure.



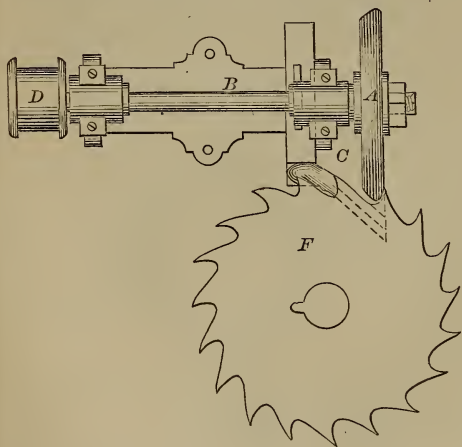
49012—H. A. Tilden—Corn Syrup.



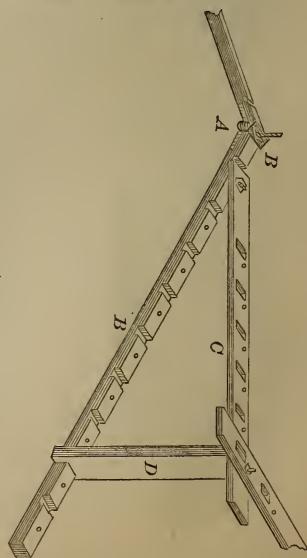
49013—H. A. Tilden—Filtering Syrup.



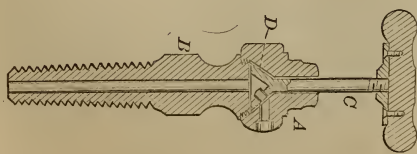
49014—J. F. Tudor—Sharpening Saws.



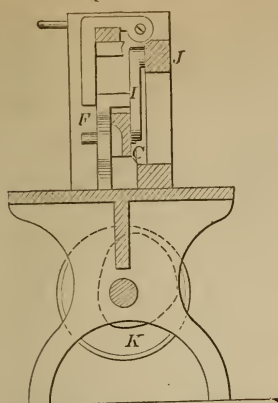
49017—E. D. Walker—Building Scaffolding.



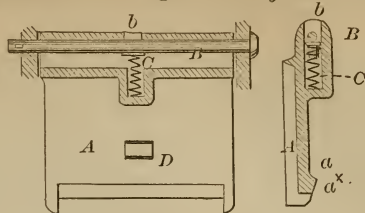
49016—E. A. Walker—Gauge Cook.



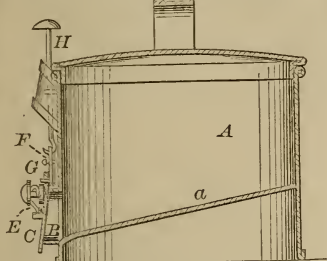
49018—Wells & Barth—Cutting Paper.



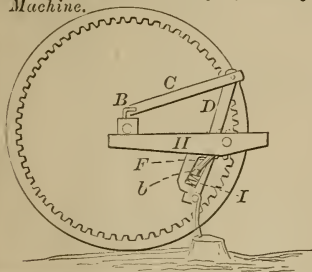
49022—R. C. Wright—Railway Journal Box.



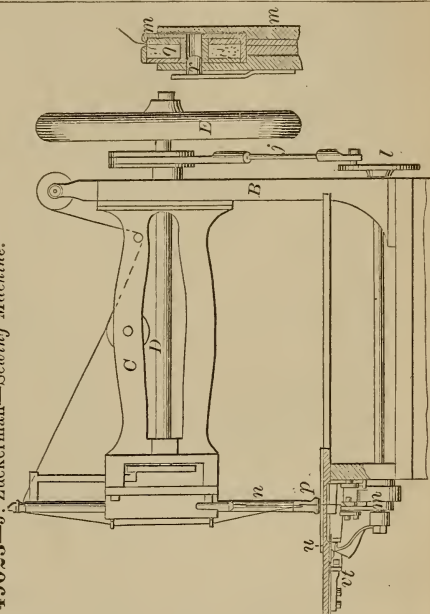
49019—B. Wieland—Butter Cup.



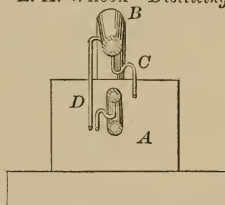
49021—C. Willard—Hay Spreading Machine.



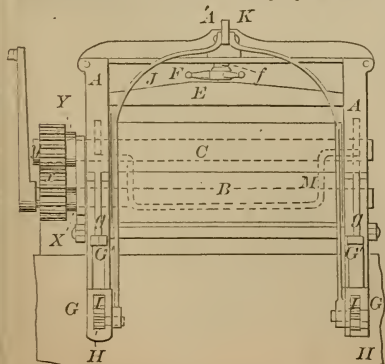
49023—J. Zuckerman—Sewing Machine.



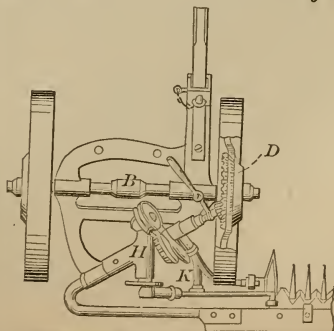
49020—L. A. Wilcox—Distilling Petroleum.



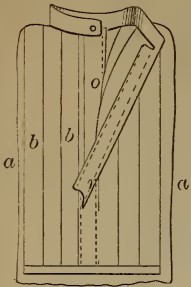
49025—J. O. Couch—Wringing Machine.



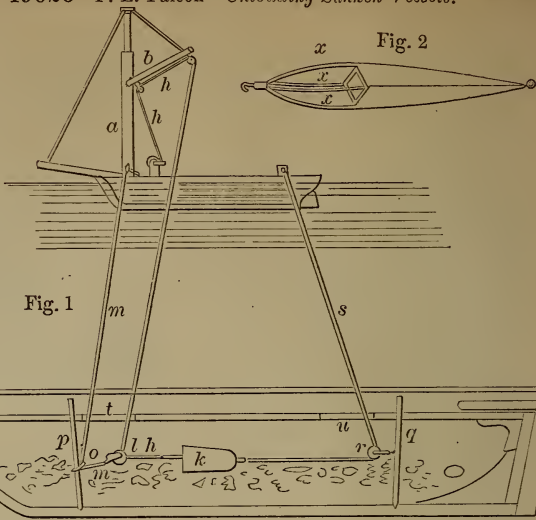
49024—W. F. Cochrane—Harvesting Machine.



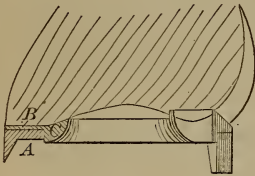
49027—E. F. French—*Shirt Bosom.*



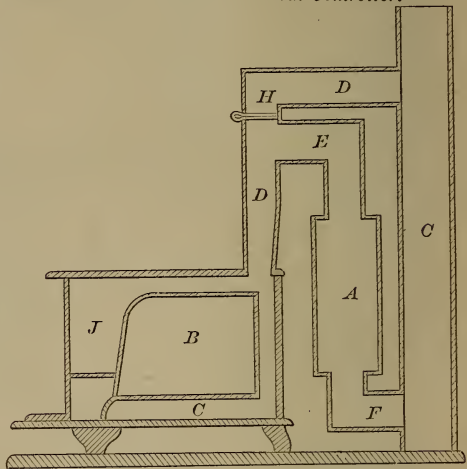
49026—P. E. Falcon—*Unloading Sunken Vessels.*



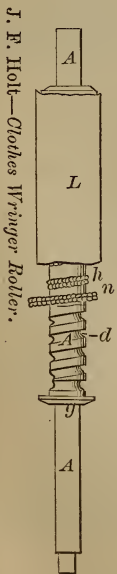
49028—J. Haseltine—*Horse Shoe.*



49029—N. T. Hitchcock—*Heat Controller.*



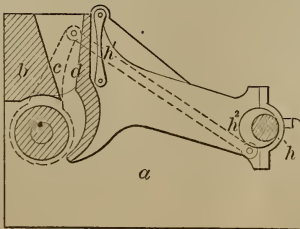
49030—



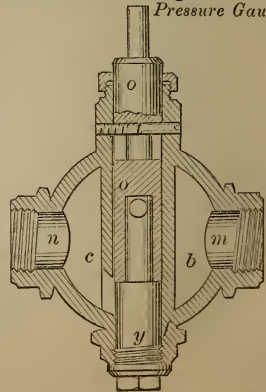
49031—A. Hinson—*Sewing Machine.*



49032—S. Ingersoll—*Ore Crusher.*

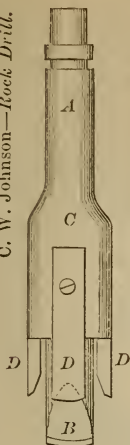


49033—J. D. Ingram—*Steam Pressure Gauge.*

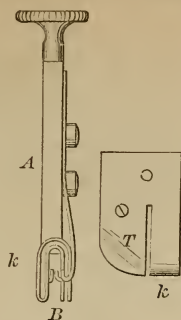


49034—

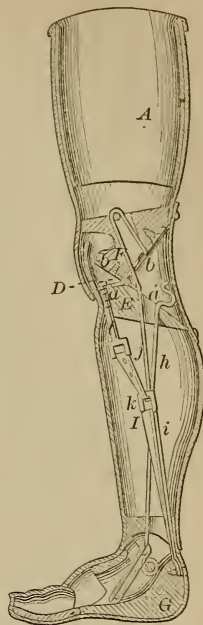
C. W. Johnson—*Rock Drill.*



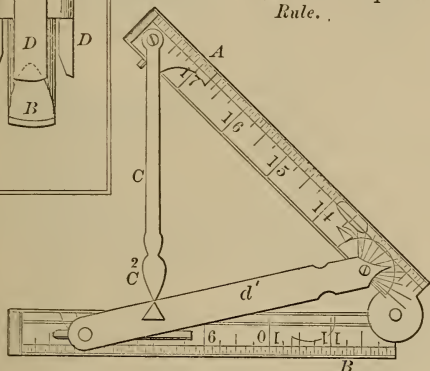
49036—C. Marsh—*Sewing Machine.*



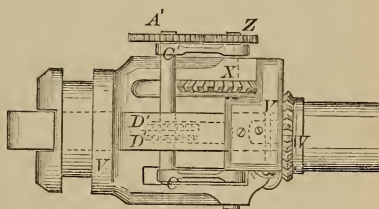
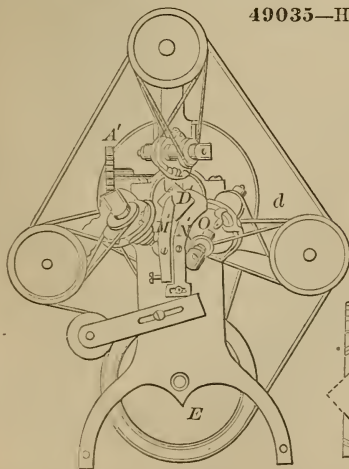
49038—J. Monroe—*Artificial Leg.*



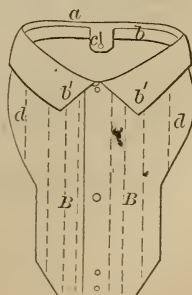
49037—B. G. Martin—*Carpenter's Rule.*



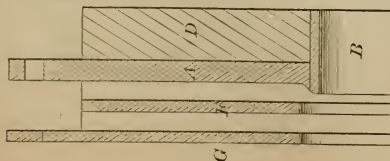
49035—H. Locke—*Lathe.*



49039—C. E. Richards—*Collar and Bosom.*

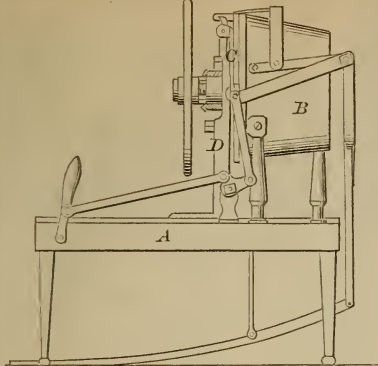


Sibley & Shiverick—*Furnace Door.*

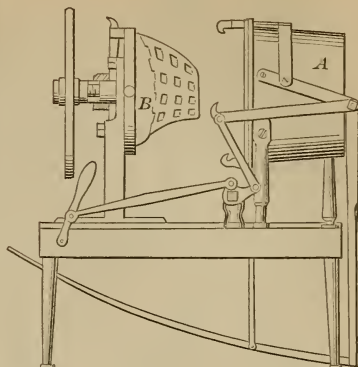


49041—

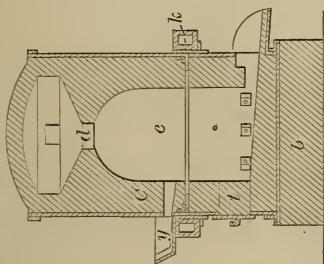
49048—H. E. West—Pressing Hats and Bonnets.



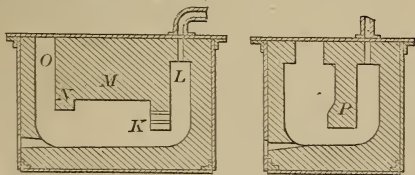
49049—H. E. West—Embossing Bonnets and Hats.



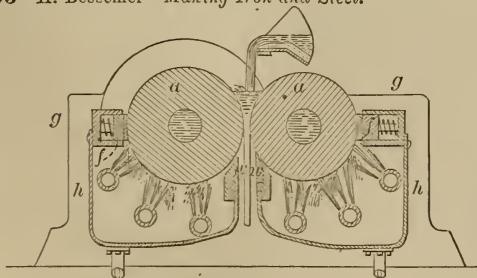
49052—H. Bessemer—
Making Iron and Steel.



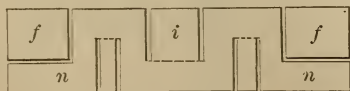
49051—H. Bessemer—Making Iron and Steel.



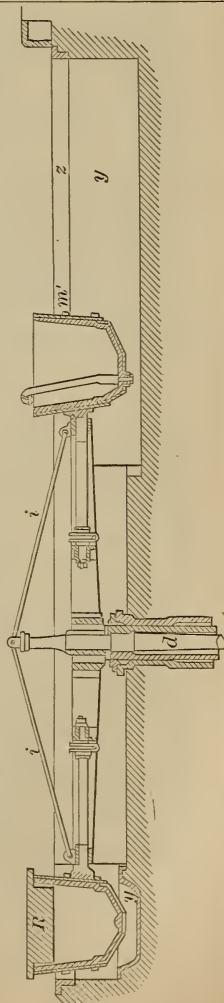
49053—H. Bessemer—Making Iron and Steel.

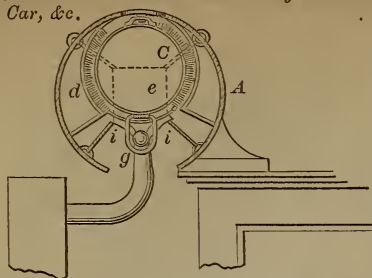
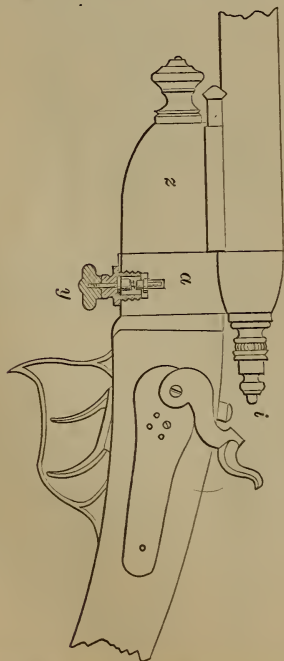
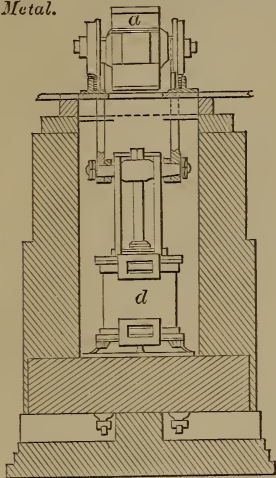
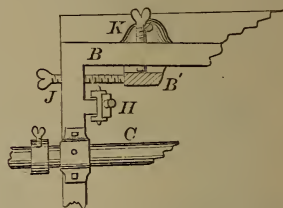
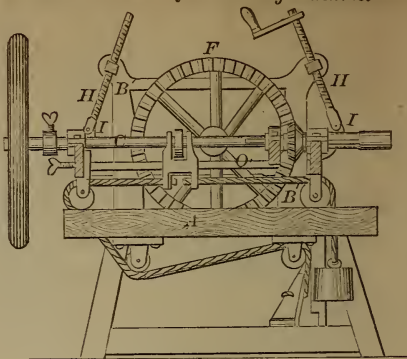
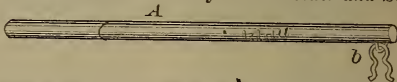
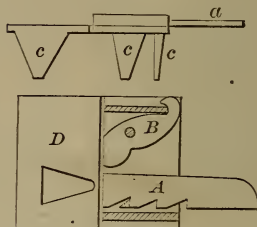
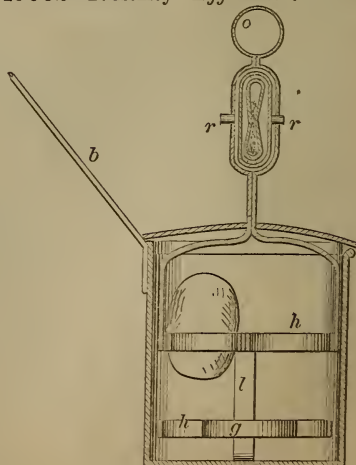


49054—H. Bessemer—Making Axles, &c.

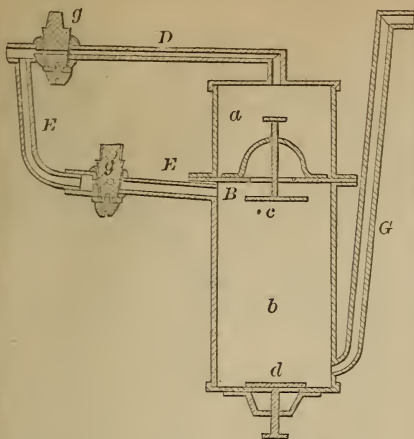


49055—H. Bessemer—Machine for Making Iron and Steel.

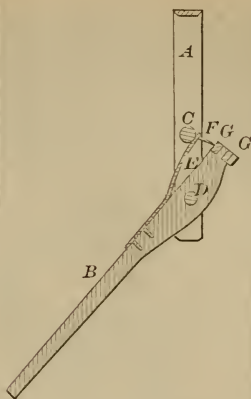


49056—A. Chavanne—*Delivering Mail to Car, &c.*49058—J. Ramsbottom—*Hammering Metal.*49057—M. L. N. Descoutures—*Five Arm.*49060—J. Van Dyke—*Boring Machine.*49059—D. A. B. Savy—*Pen Holder and Scale.*49061—J. Adams—*Shoe Fastening.*49062—F. Ashley—*Egg Boiler.*

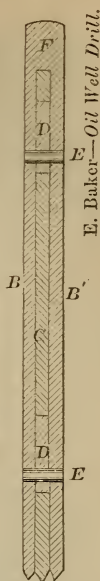
49063—J. E. Atwater—*Steam Pump.*



49071—A. W. Bishop—*Animal Poke.*

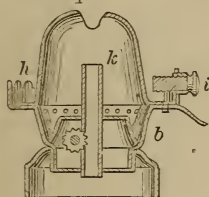


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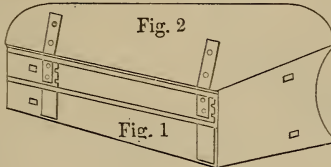


E. Baker—*Oil Well Drill.*

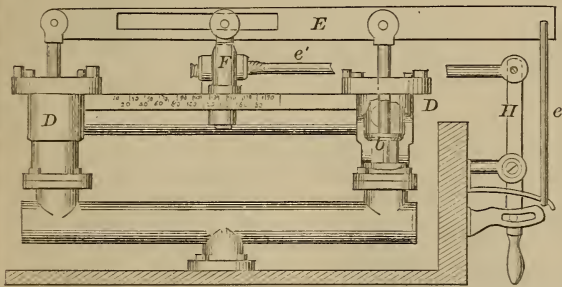
49064—L. J. Atwood—*Lamp.*



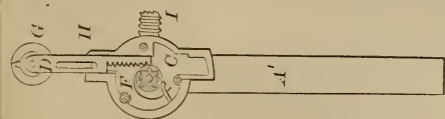
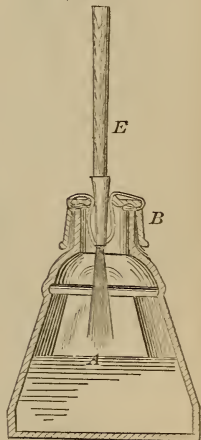
49067—Barker & Blakelee—*Sheep Chair.*



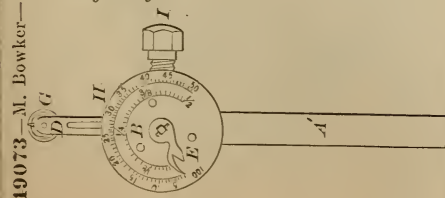
49068—S. G. Barker—*Safety Valve.*



49072—E. H. Boswell—*Brush.*

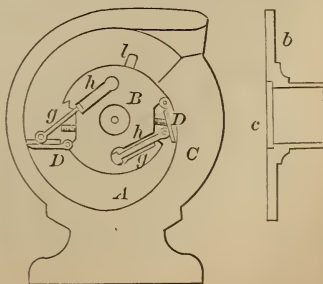


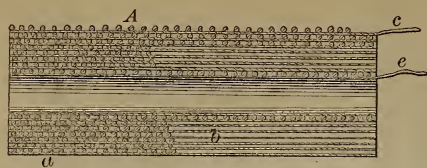
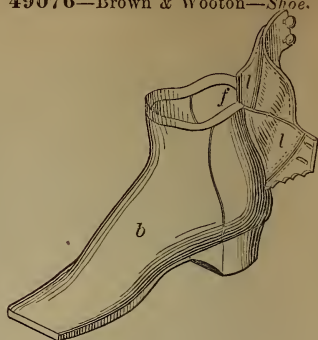
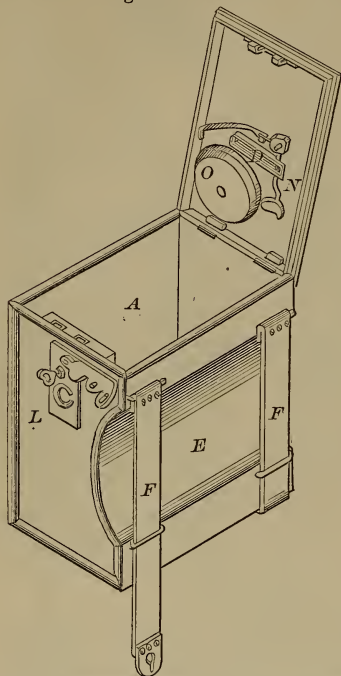
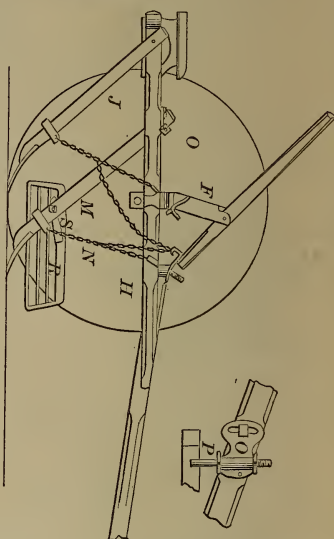
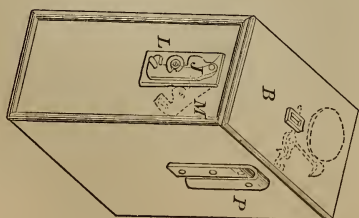
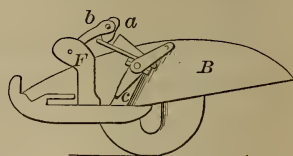
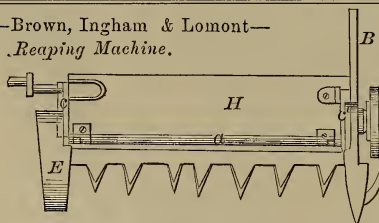
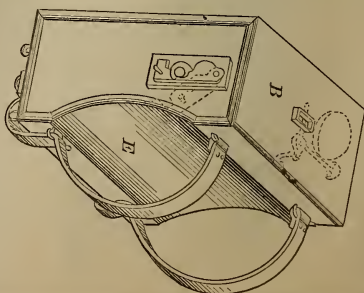
Turning Gauge.



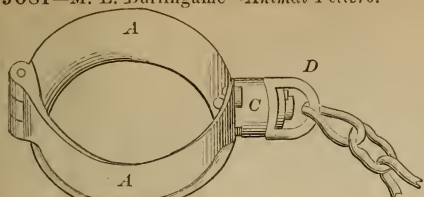
49073—M. Bowker—

49070—D. Bickford—*Rotary Engine.*

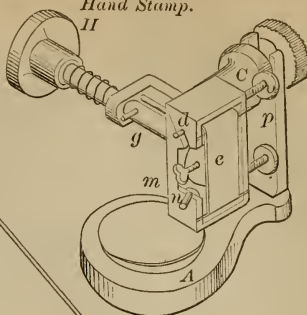


49074—L. Bradley—*Magnet Helix.*49076—Brown & Wooton—*Shoe.*49078—A. H. Bugher—*Fare Box.*49075—J. Brewer—*Cultivator.*49077—Brown, Ingham & Lomont—*Reaping Machine.*49080—A. H. Bugher—*Fare Box.*49079—A. H. Bugher—*Fare Box.*

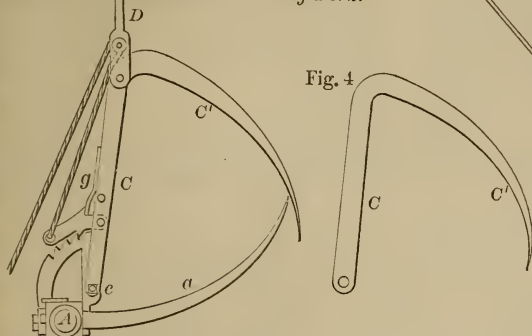
49081—M. E. Burlingame—*Animal Fetters.*



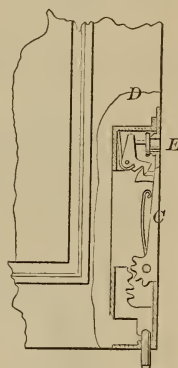
49084—D. H. Chamberlain—*Hand Stamp.*



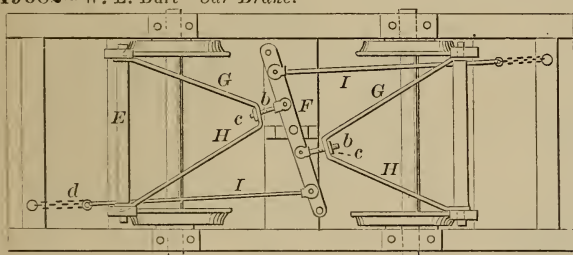
49083—J. R. Cadwell—*Horse Hay Fork.*



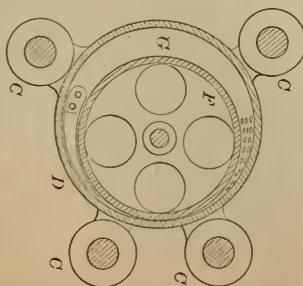
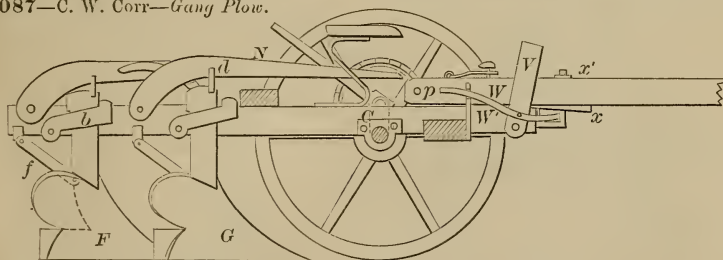
49085—C. Chevallier—*Bolt.*



49082—W. L. Burt—*Car Brake.*

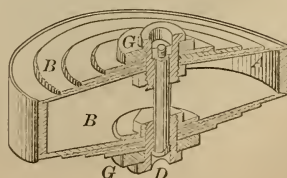


49087—C. W. Corr—*Gang Plow.*

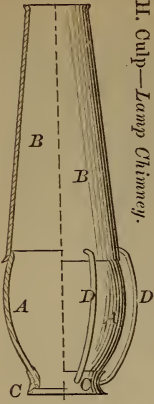
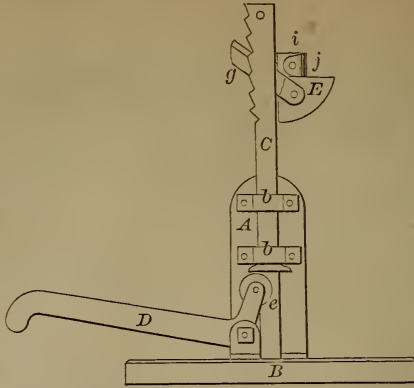
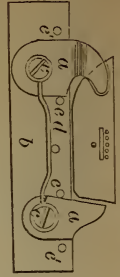
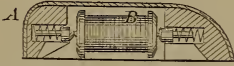
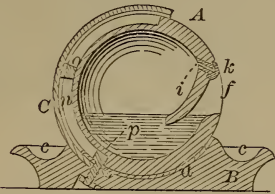


49088—Chever & Keeney—*Cider Mill.*

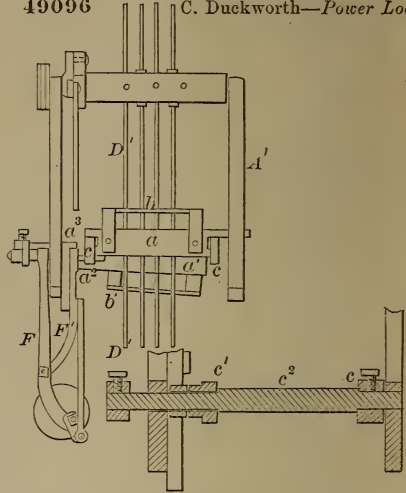
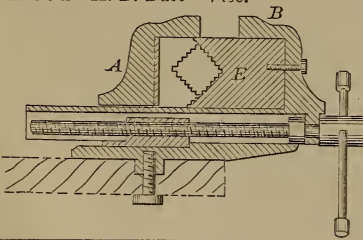
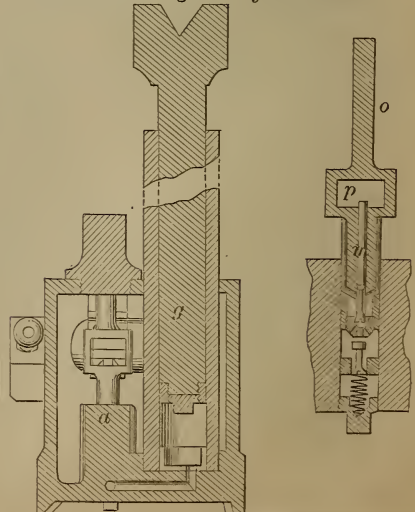
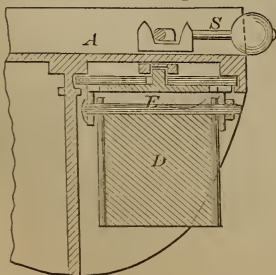
49086—W. F. Converse—*Car Spring.*



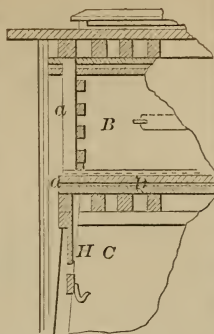
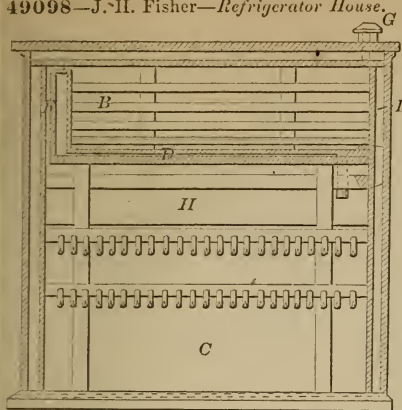
49089—

W. H. Culp—*Lamp Chimney.*49090—G. L. Cummings—*Carriage Jack.*49091—V. Cutter—*Sewing Machine.*49092—V. Cutter—*Sewing Machine.*49093—S. Darling—*Inkstand.*

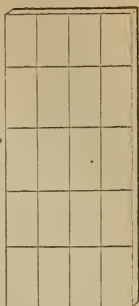
49096

C. Duckworth—*Power Loom.*49094—H. B. Dart—*Vise.*49097—R. Dudgeon—*Hydraulic Jack.*49095—M. Depuy—*Propeller.*

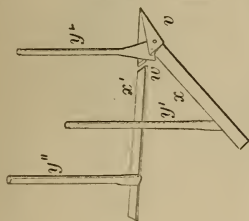
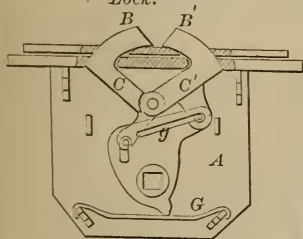
49098—J. H. Fisher—Refrigerator House.



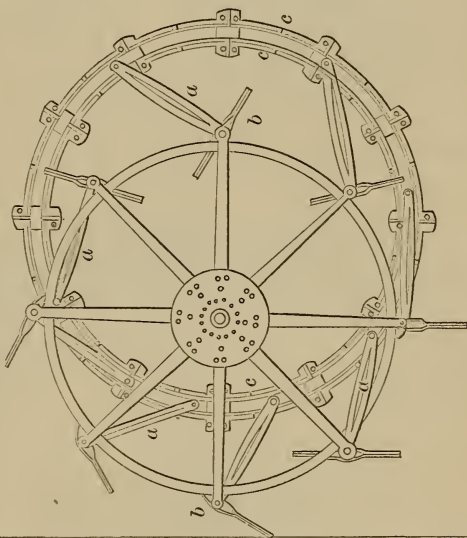
49099—L. Fox—Testing Value of Mutilated Currency Notes.



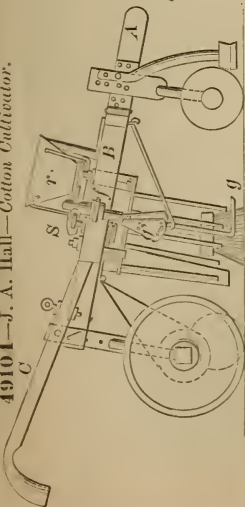
49100—E. L. Gaylord—Piano Lock.



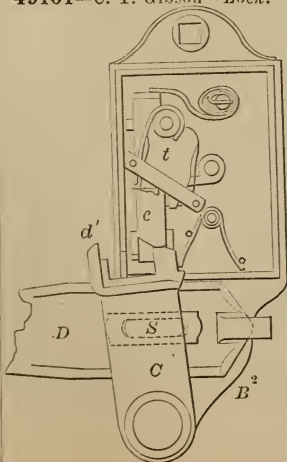
49102—A. Gilman—Paddle Wheel.



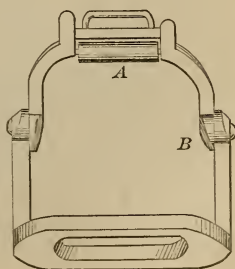
49101—J. A. Hall—Cotton Cultivator.



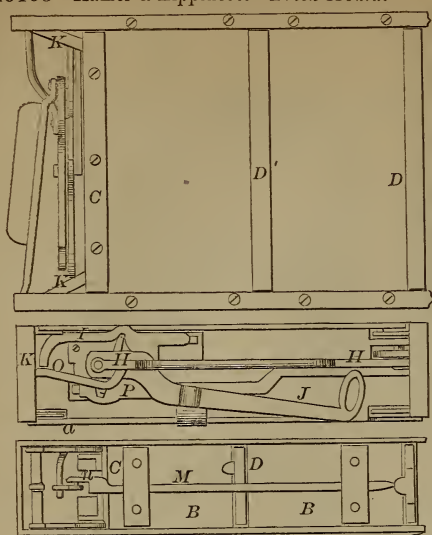
49101—C. T. Gibson—Lock.



49103—J. S. Gould—Stirrup.



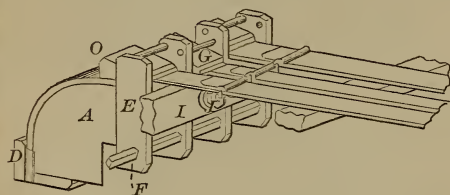
49105—Hamer & Lippincott—Brick Mould.



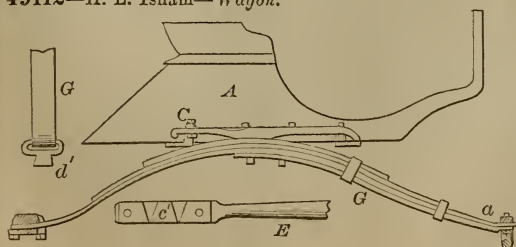
49107—J. L. Hills—Railway Chair.



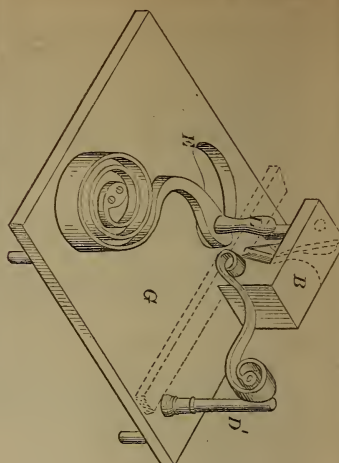
49109—P. Hurm—Wood Bending.



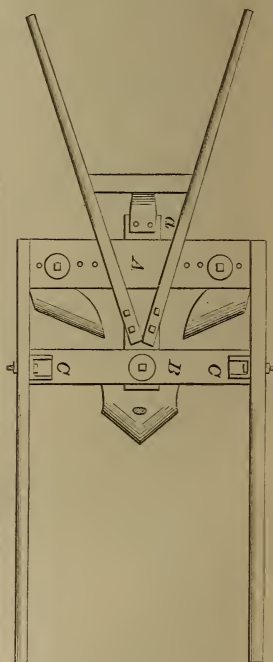
49112—H. L. Isham—Wagon.



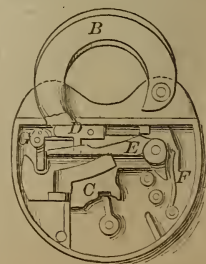
49110—W. L. Hutchinson—Truss Trimmer.



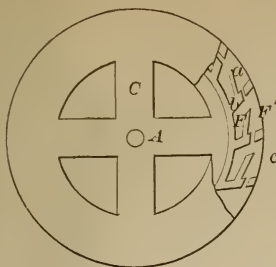
49111—H. Ingraham—Cultivator.



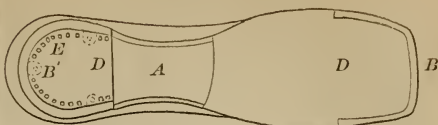
49113—H. Jackson—Padlock.



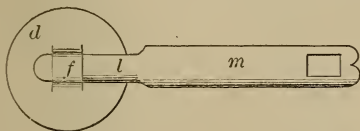
49114—A. Jamison—*Water Wheel.*



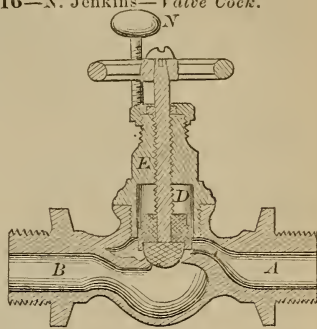
49118—I. T. Jones—*Boots and Shoes.*



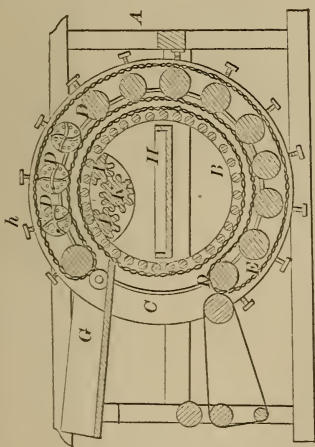
49115—C. E. S. Jelliffe—*Blacking Box Holder.*



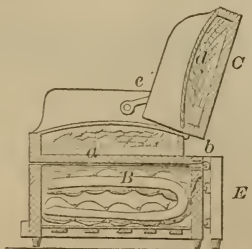
49116—X. Jenkins—*Valve Cock.*



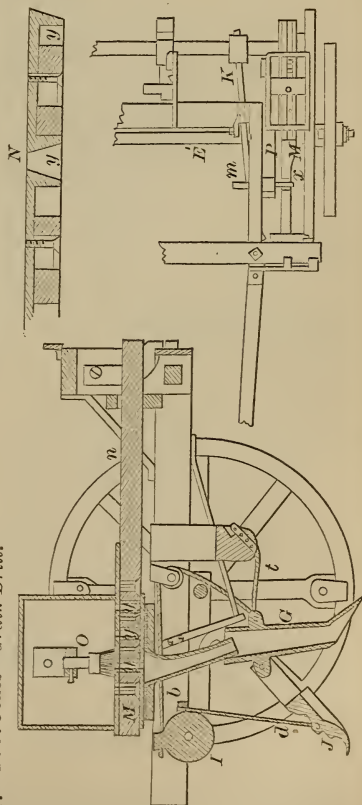
49119—J. F. Jones—*Paper Board.*

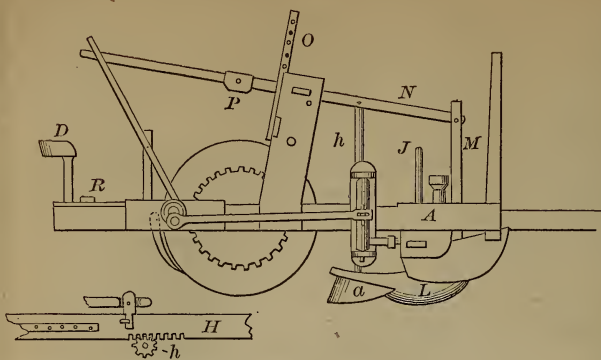
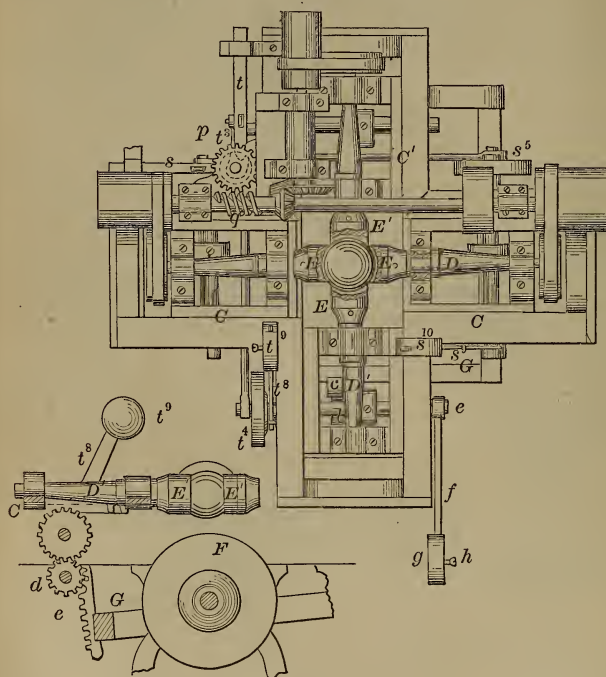
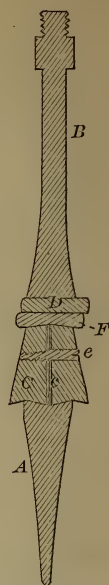
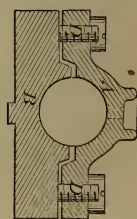
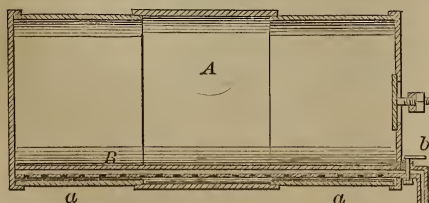
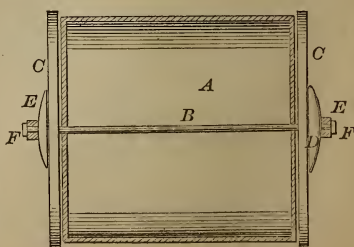


49120—F. Keller—*Sofa Bedstead.*

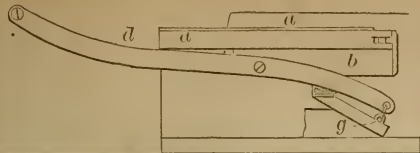


49117—D. J. Jones—*Grain Drill.*

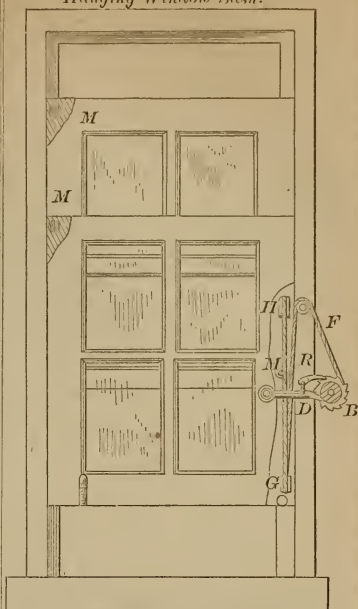


49121—P. H. Kimball—*Corn Planter.*49122—J. L. Knowlton—*For Rounding Balls.*49123—O. B. Latham—*Well Boring Drill.*49124—H. A. Lee—*Journal Box.*49125—D. Lister—*Steam Boiler.*49126—D. Lott—*Revolving Car.*

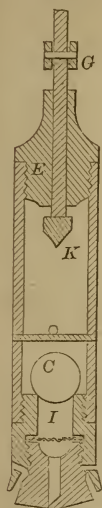
49127—T. Loud—Organ Swell.



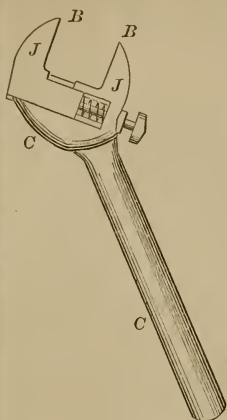
49134—Merrymon & Ferguson—Hanging Window Sash.



49129—J. M. May—Drill.



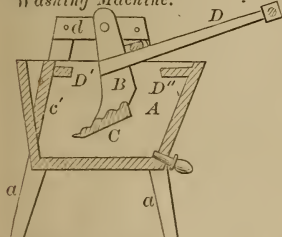
49128—H. W. Love—Screw Wrench.



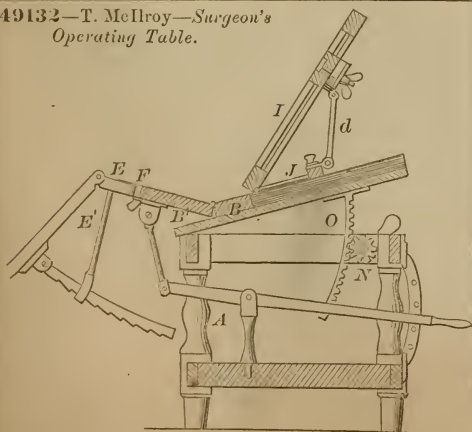
49130—E. Maynard—Fire Arm.



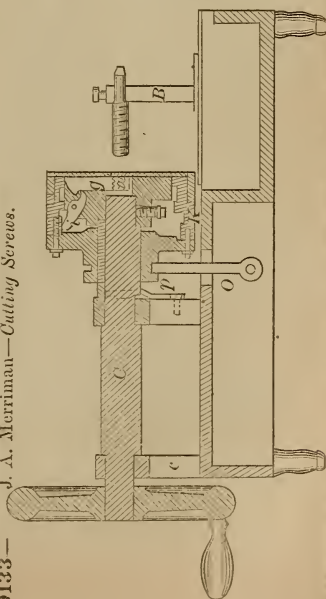
49135—J. H. Monsees—Washing Machine.



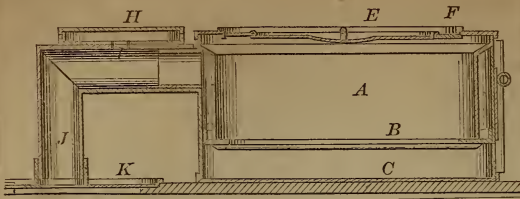
49132—T. McIlroy—Surgeon's Operating Table.



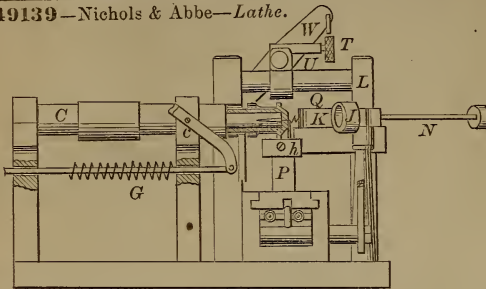
49133—J. A. Merriman—Cutting Screws.



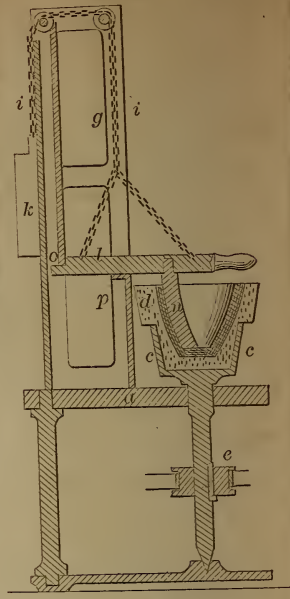
49136—F. Morandi—Stove.



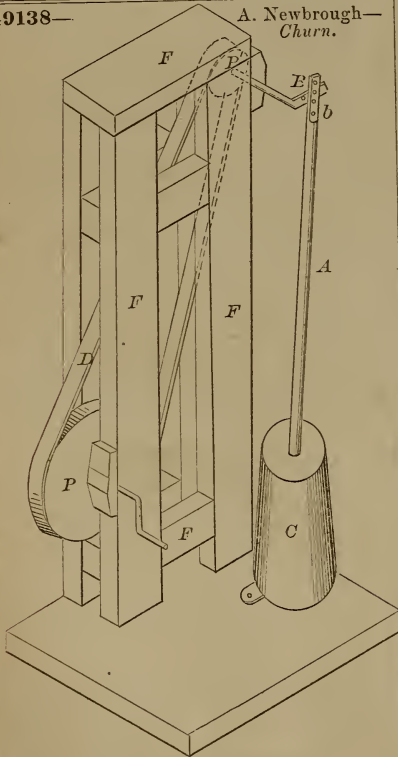
49139—Nichols & Abbe—Lathe.



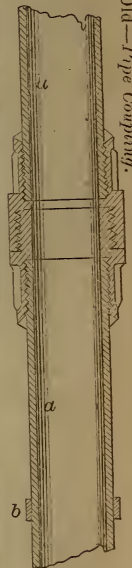
49140—G. Nimmo—Moulding Crucible.



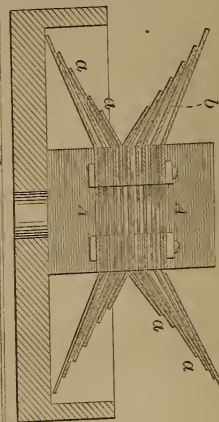
49138—A. Newbrough—Churn.



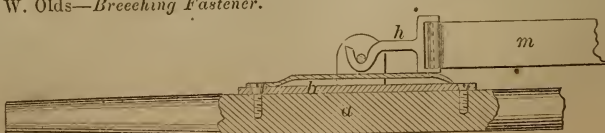
49142—J. Old—Type Compling.



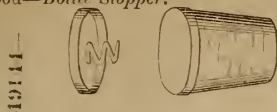
49137—W. Newbauer—Car Spring.



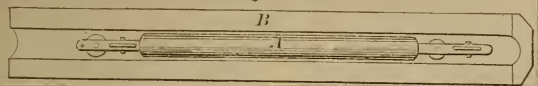
49143—A. W. Olds—Breeching Fastener.



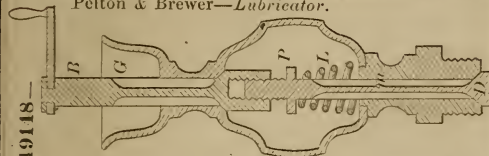
R. T. Osgood—*Bottle Stopper.*



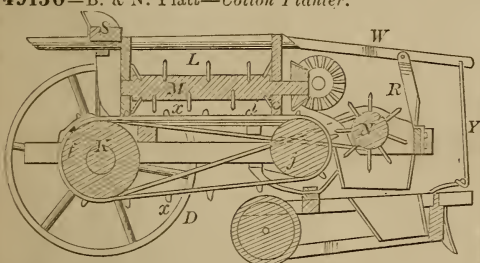
49146—G. Palmer—*Preserving Wood.*



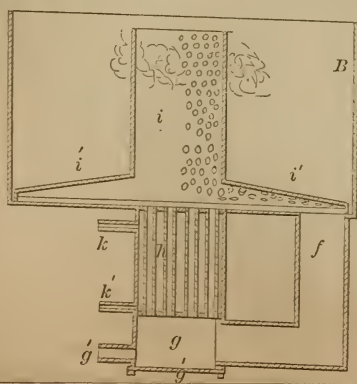
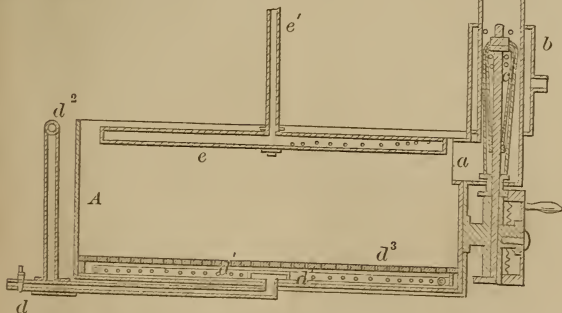
Pelton & Brewer—*Lubricator.*



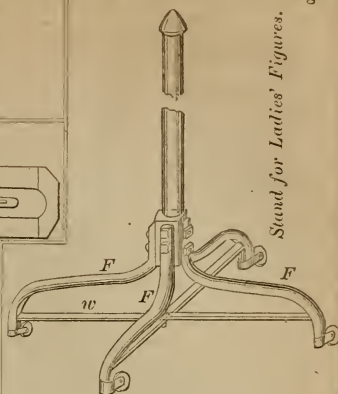
49150—B. & N. Platt—*Cotton Planter.*



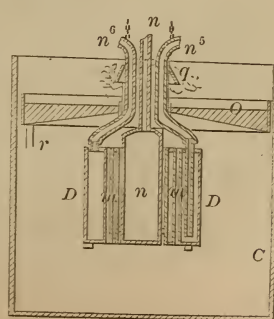
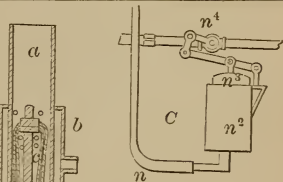
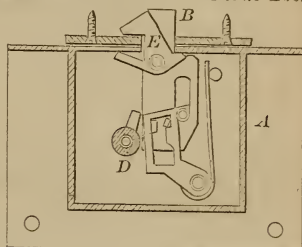
49151—Prentiss & Robertson—*Brewing.*



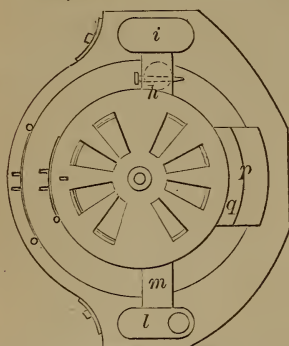
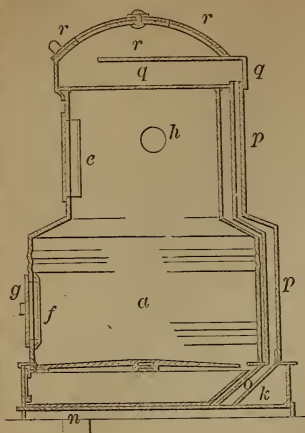
49145—J. R. Palmenberg—



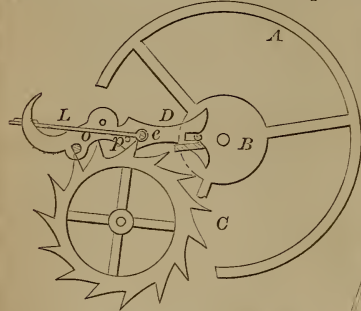
49149—A. F. Pfeifer—*Piano Lock.*



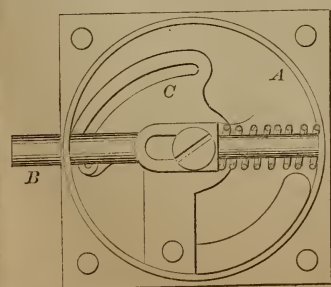
49153—D. S. Quimby—Stove.



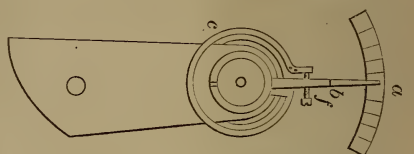
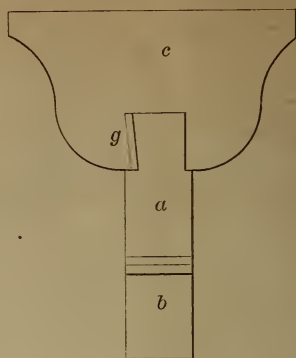
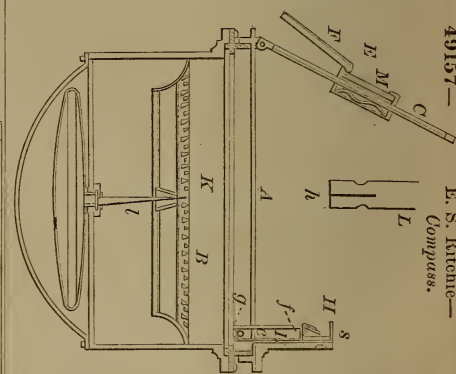
49155—G. P. Reed—Watch Escapement



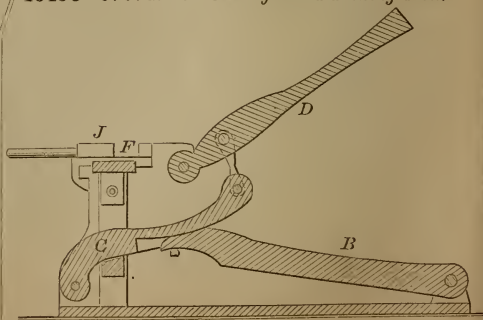
49159—A. H. Rowe—Sash Fastener.



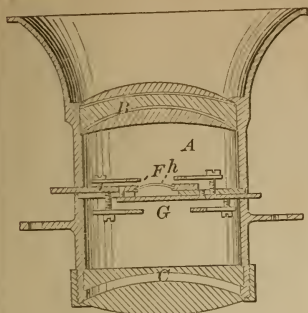
49156—H. C. Reynolds—Axe.

49154—G. P. Reed—
Watch Regulator.49157—
E. S. Ritchie—
Compass.

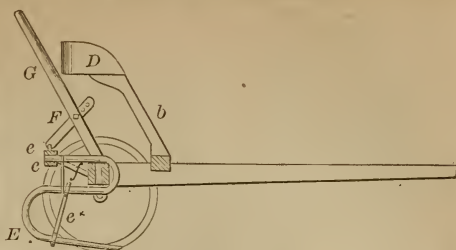
49158—J. J. Rose—Cutting and Punching Iron.



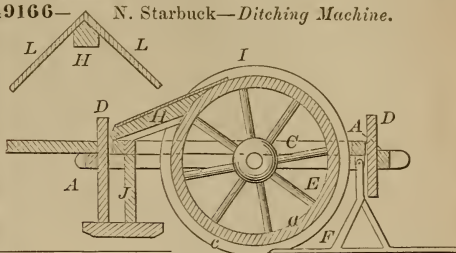
49160—J. Schnitzer—*Photographic Lens.*



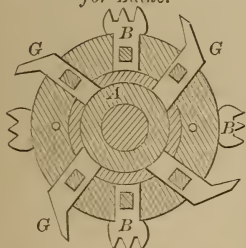
49161—S. M. Sherman—*Horse Rake.*



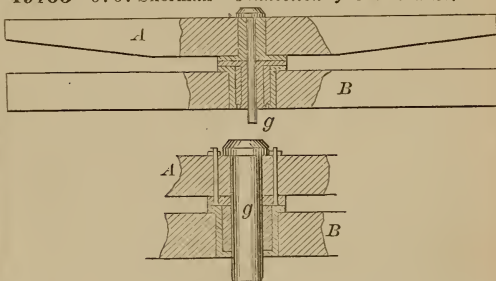
49166—N. Starbuck—*Ditching Machine.*



49161—J. Shannon—*Cutters for Lathe.*



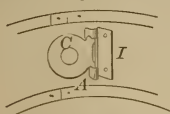
49163—J. J. Sherman—*Connection of Car Trucks.*



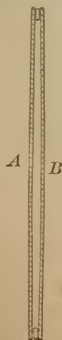
49162—T. Sharts—*Railway Frog.*



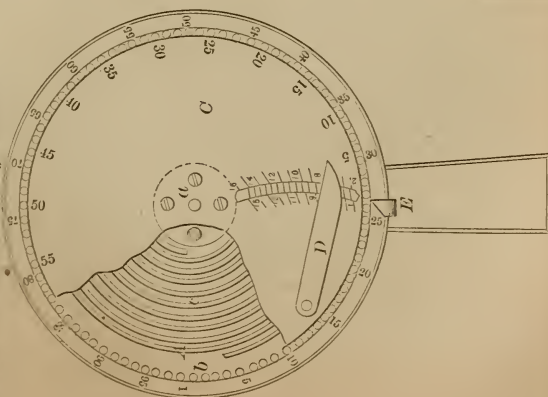
49165—J. Spear—*Store.*



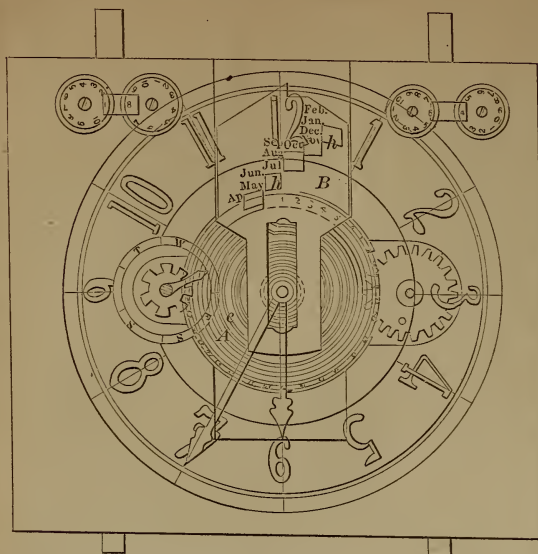
49167—T. D. Stetson—*Window Glass.*



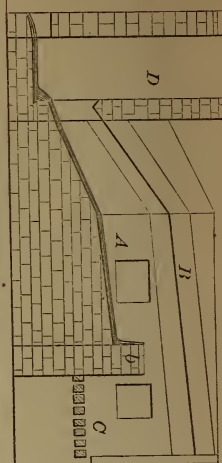
49168—T. T. Strode—*Adding Machine.*



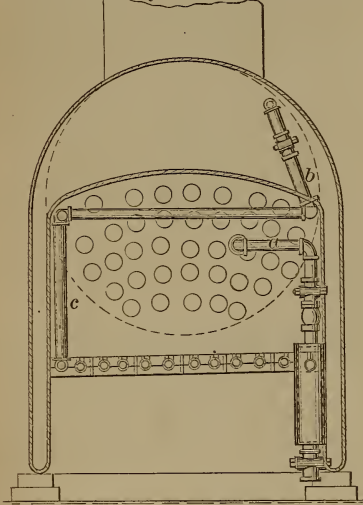
49169—T. T. Strode—Calendar Clock.



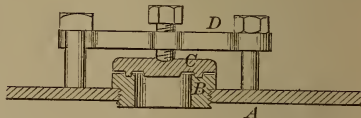
49175—Thomas & Edwards—Manufacture of Wrought Iron.



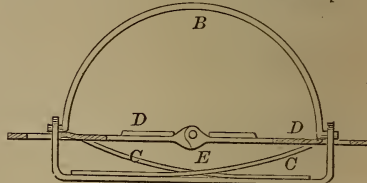
49172—E. Thayer—Steam Generator.



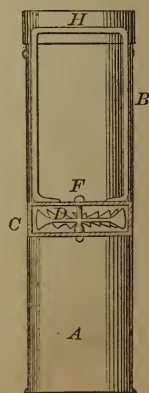
49170—Taylor & Towne—Closing Hand Hole Plates.



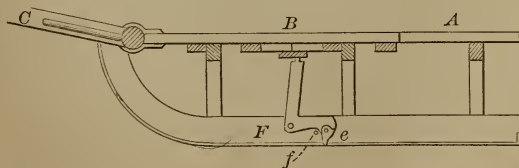
49174—L. H. Thomas—Steel Trap.



49176—H. Tilden—Egg Beater.



49173—L. H. Thomas—Sled Brake.

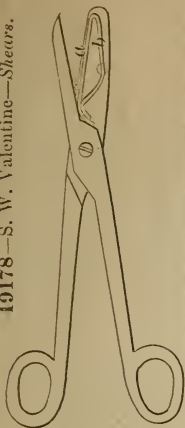


J. H. L. Tuck—Well Drill.



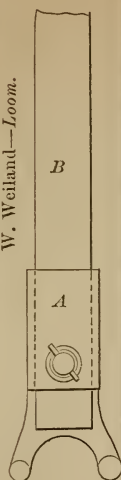
49177—

49178—S. W. Valentine—Shears.

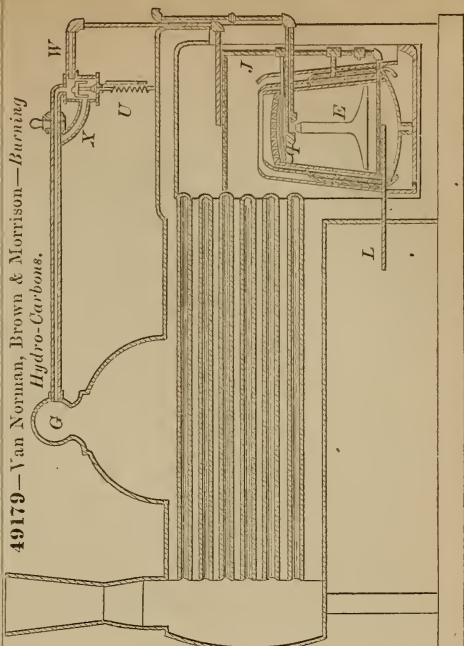


49182—

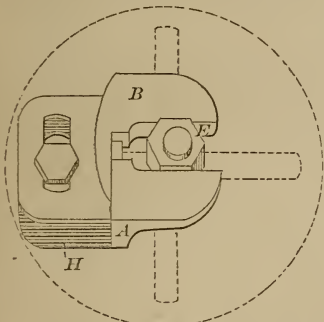
W. Weiland—Loom.



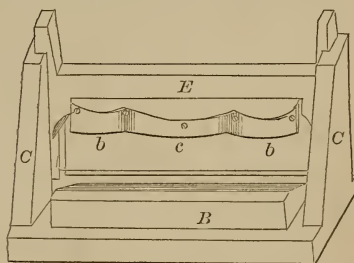
49179—Van Norman, Brown & Morrison—Burning Hydro-Carbous.



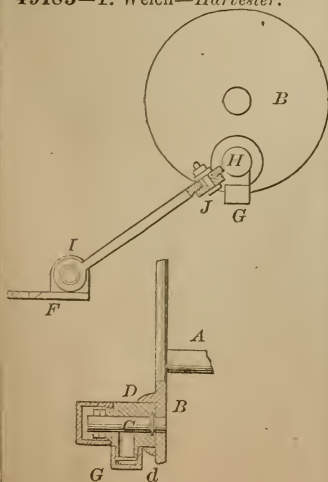
49180—W. Vine—Dog for Lathe.



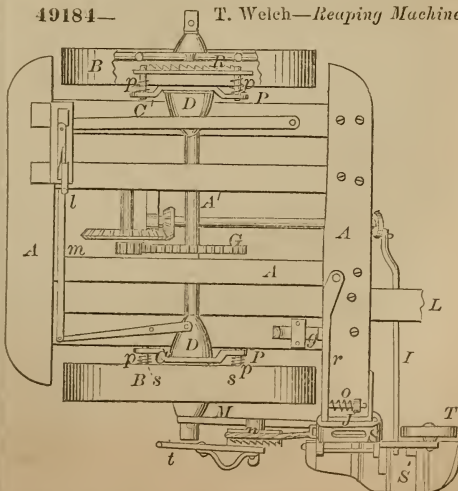
49181—J. H. Walker—Boot and Shoe Soles.



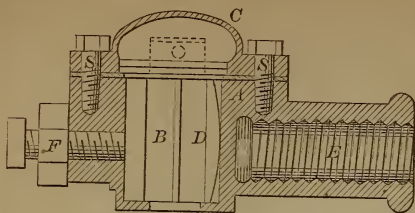
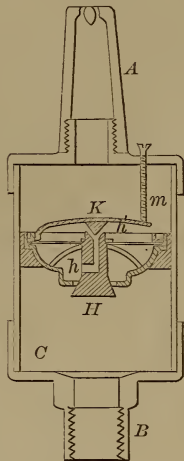
49183—T. Welch—Harvester.



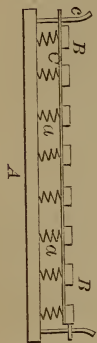
49184— T. Welch—Reaping Machine.



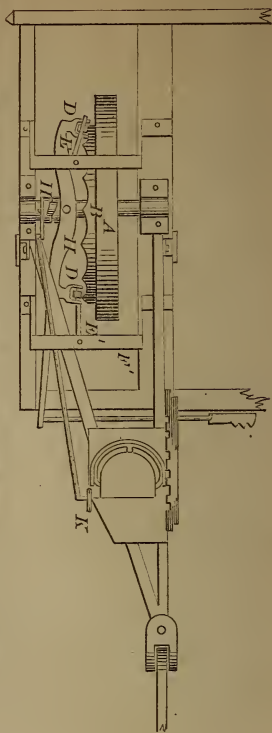
49185—T. Welch—Crank Pin Box.

49188—J. S. Wood—
Gas Regulator.

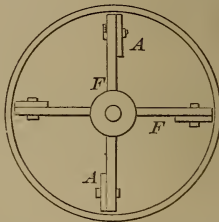
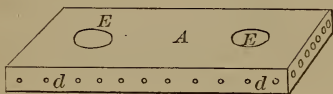
49189—Workman & Swain—Bed Bottom.



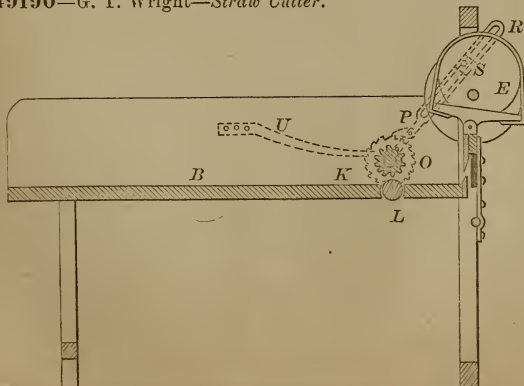
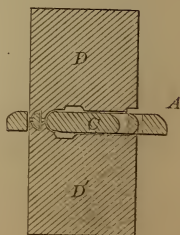
49186—N. A. Wheaton—Harnesting Machine.



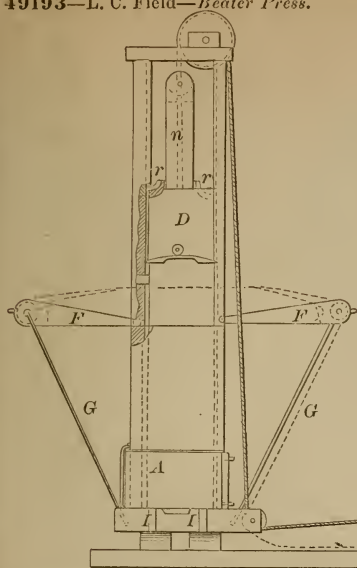
49187—Whelpley & Storer—Stamping Mill.



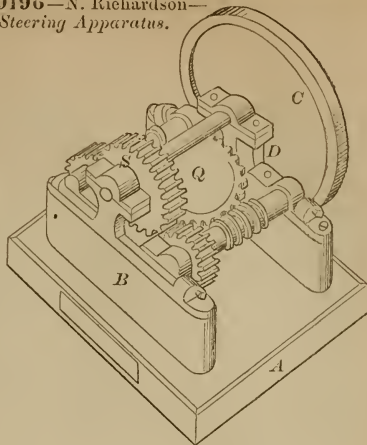
49190—G. T. Wright—Straw Cutter.

49191—C. H. Bassett—
Cutting Ivory Rings.

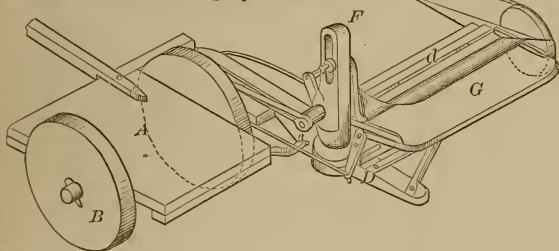
49193—L. C. Field—Beater Press.



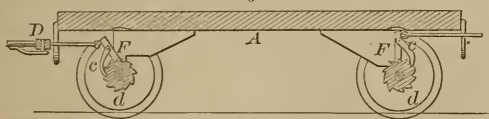
49196—N. Richardson—Steering Apparatus.



49194—H. Fisher—Reaping Machine.

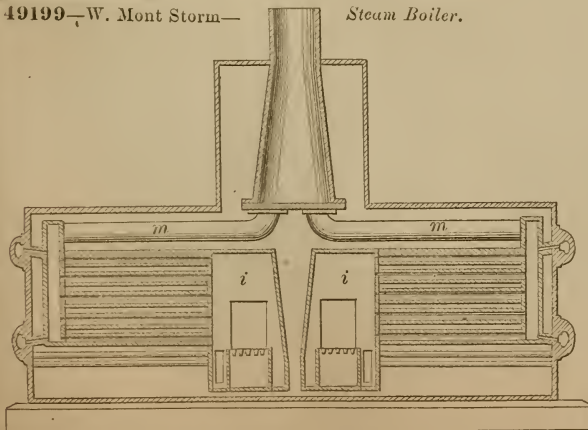


49195—A. F. French—Starting Curs.

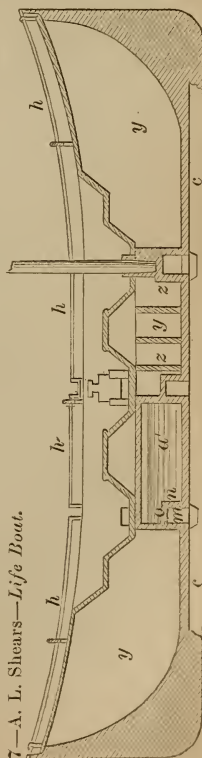


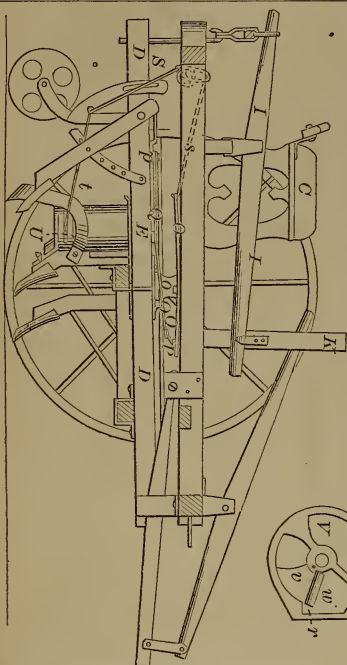
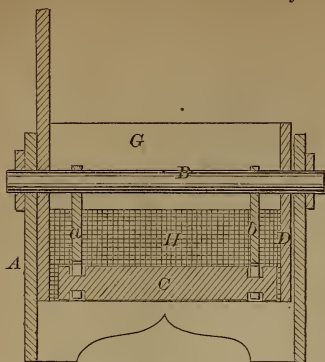
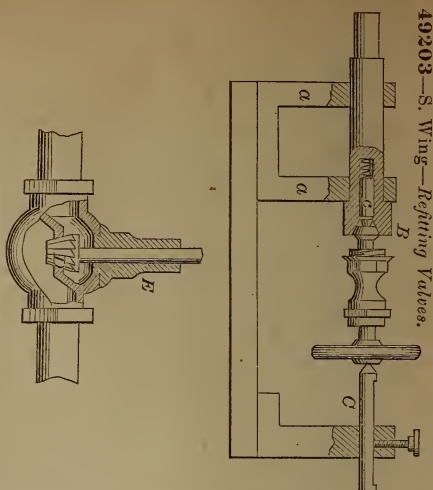
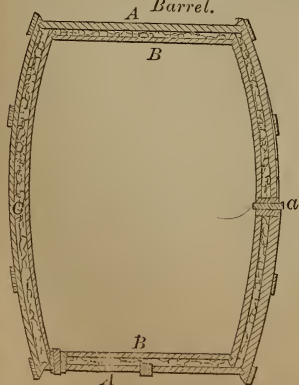
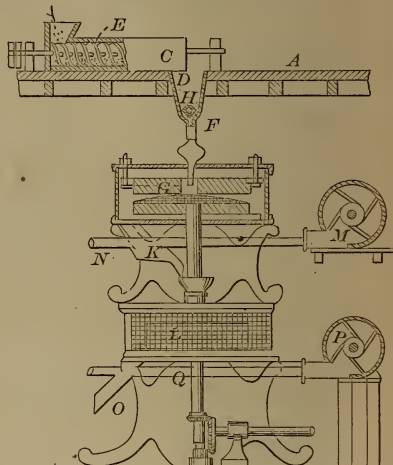
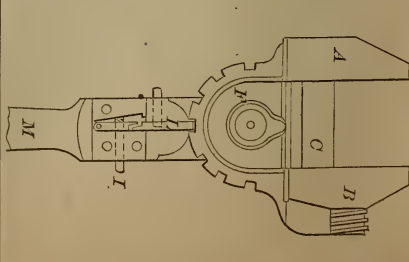
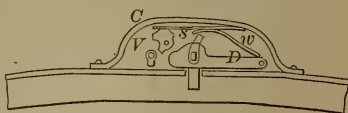
49199—W. Mont Storm—

Steam Boiler.

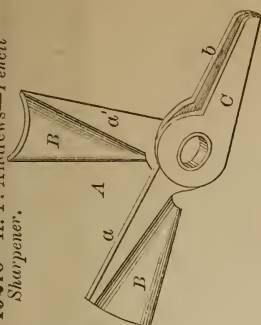


49197—A. L. Shears—Life Boat.

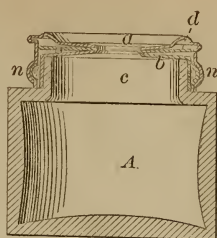


49200—G. W. Tileston—*Flour Sifter*.49204—E. M. Wright—*Cultivator and Plow*.49202—G. W. Williamson—*Petroleum Barrel*.49203—S. Wing—*Regulating Valves*.49205—C. O. Bullock—*Grain Huller*.49207—B. Steinmetz—*Satchel Lock*.49208—J. White—*Wrench*.

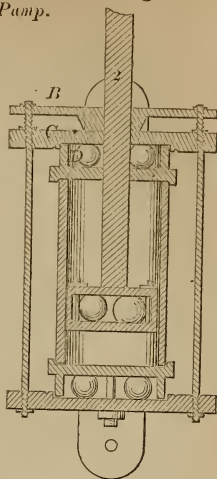
49210—H. P. Andrews—Pencil Sharpener.



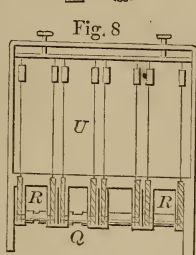
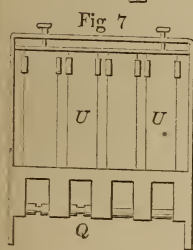
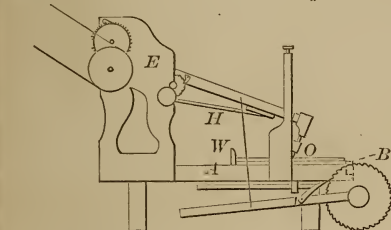
49211—J. Axtman—Inkstand.



49212—A. Balding—Force Pump.



49214—J. K. Barker—File Cutting.



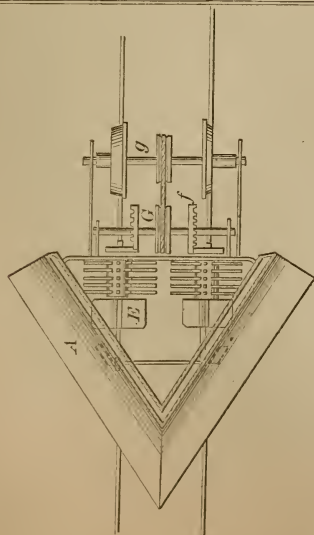
49213—G. F. Barden—Book Cover.



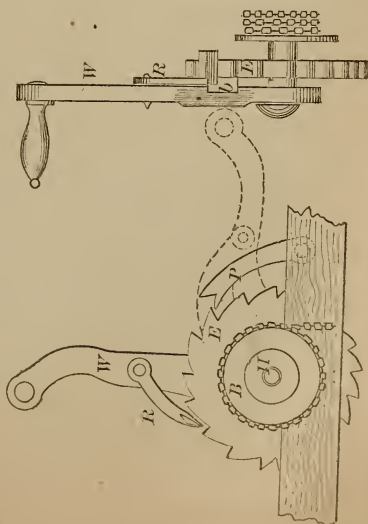
49219—L. R. Blake—Nailed Shoe.



49216—A. L. Bausman—Snow Plow.



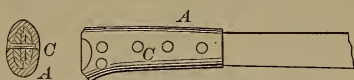
49217—J. H. Best—Water Elevator.



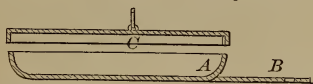
49221—Bocklen & Stachlen—
Hygrometer.



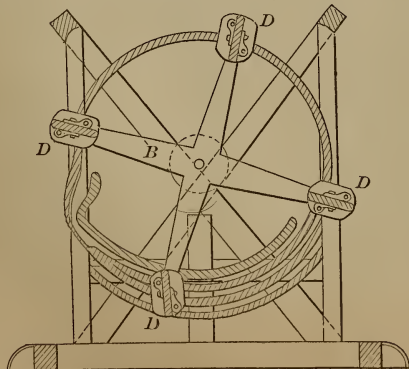
49222—M. Bradley—*Knife Handle.*



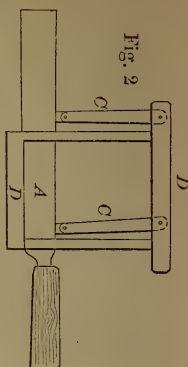
49224—J. S. Brooks—*Blacking Box.*



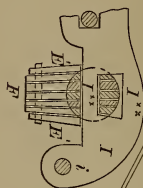
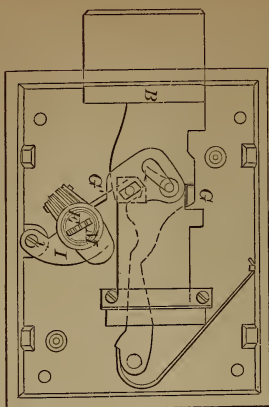
49226—J. Burson—*Paddle Wheel.*



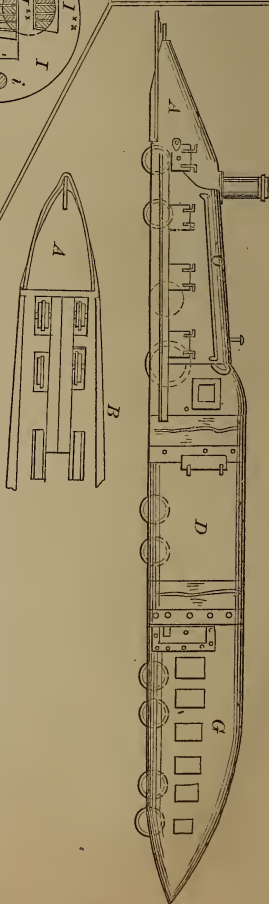
49225—Budd & Husband—*New Cutter.*



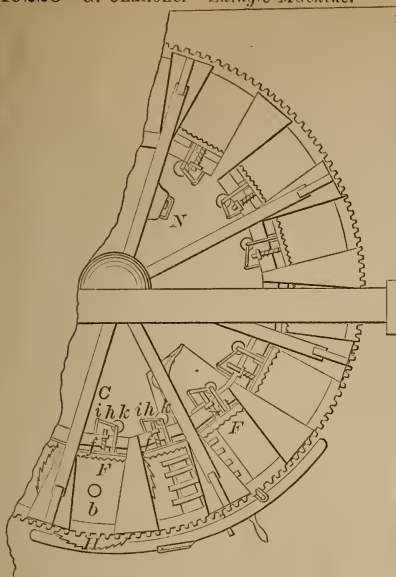
49223—E. W. Brettell—*Lock.*



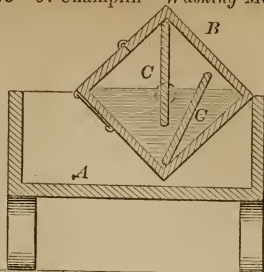
49227—S. F. Calthorp—*Constructing Railway Trains and Cars.*



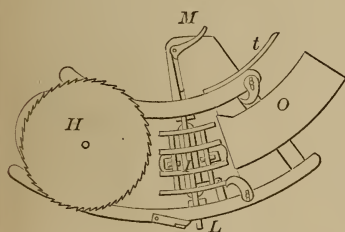
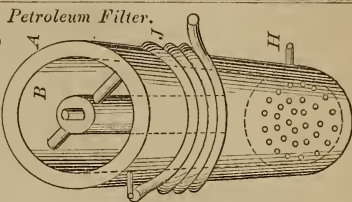
49228—G. Challoner—*Shingle Machine.*



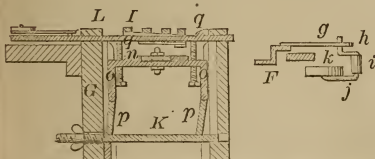
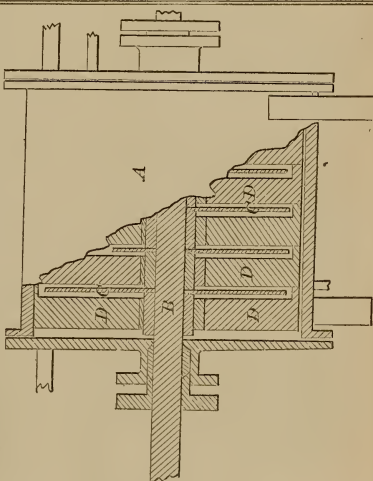
49229—J. Champlin—*Washing Machine.*



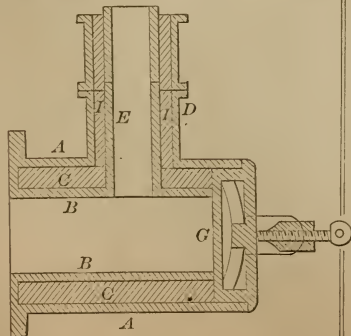
49230—R. A. Chesbrough—*Petroleum Filter.*



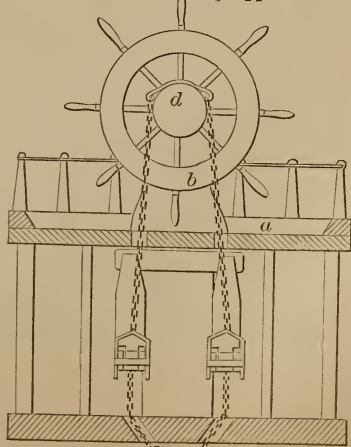
49232—T. J. Chubb—*Analycanator.*

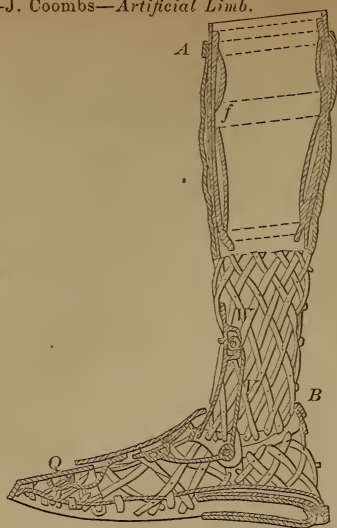
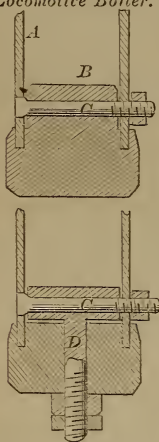
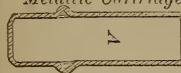
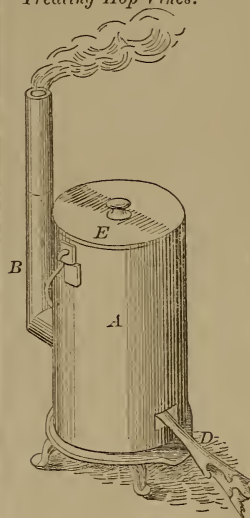
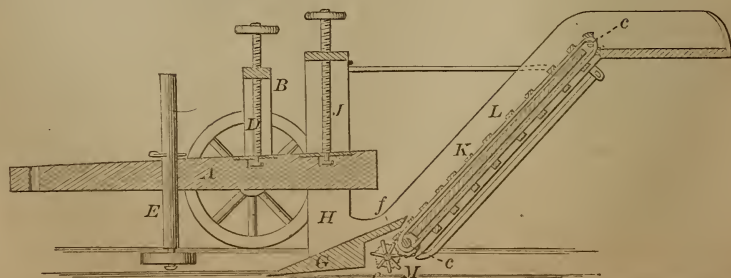
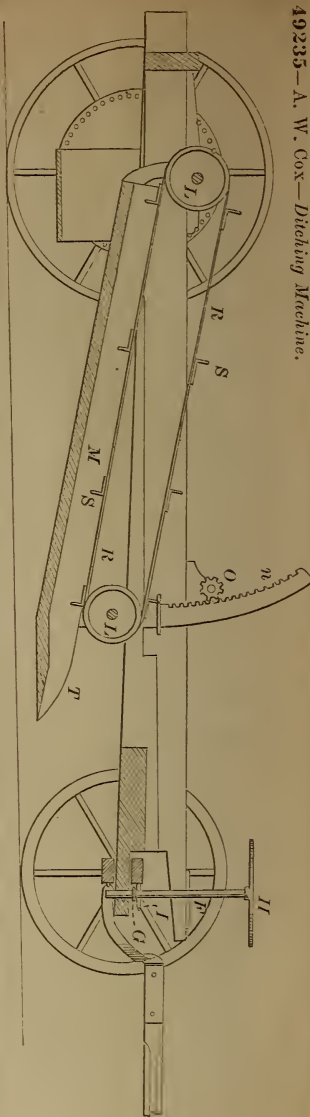


49231—J. Chilcott—*Gas Retorts.*

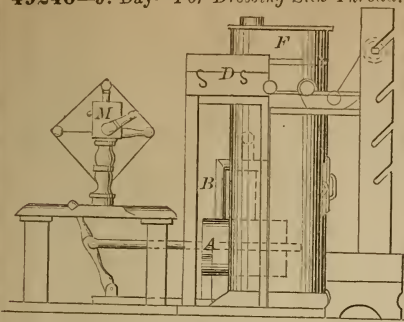


49233—G. Coffin—*Steering Apparatus.*

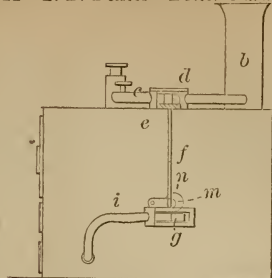


49234—J. Coombs—*Artificial Limb.*49236—S. Crawford—*Locomotive Boiler.*49237—S. Crispin—*Metallic Cartridge.*49238—S. Cummings—*Treating Hop Vines.*49239—W. H. Dalbey—*Ditching Machine.*49235—A. W. Cox—*Ditching Machine.*

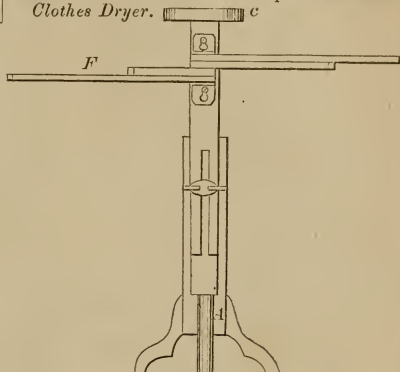
49240—J. Day—For Dressing Silk Thread.



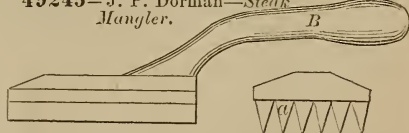
49241—T. B. Dexter—Boiler Furnace.



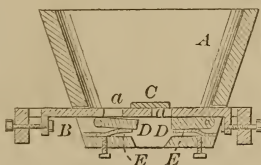
49244—J. Donaldson—Lamp Stand and Clothes Dryer.



49245—J. P. Dorman—Steak Mangler.



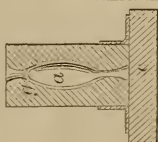
49250—J. W. Fawkes—Corn Planter.



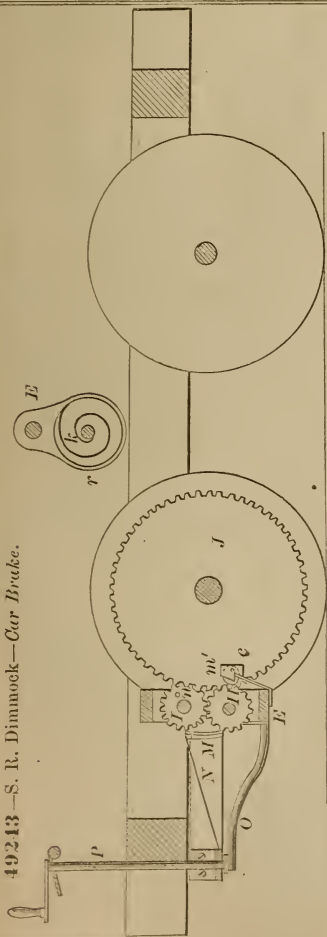
49251—M. Finkle—Heddles.



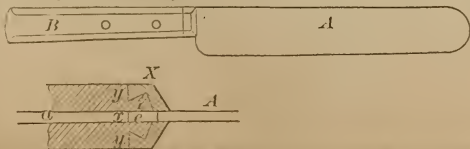
49242—D. Dick—Capsule.

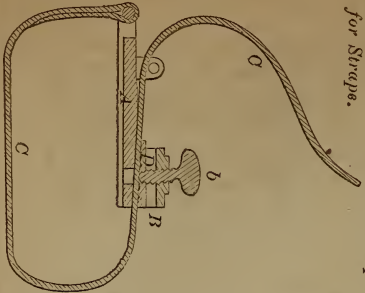


49243—S. R. Dimmock—Car Brake.



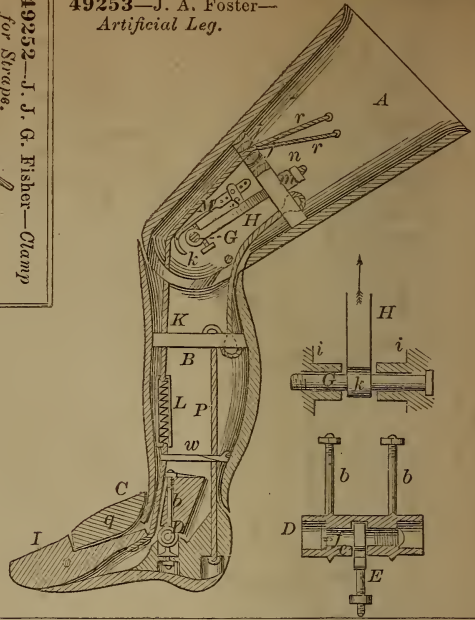
49246—J. O. Ely—Table Knife.



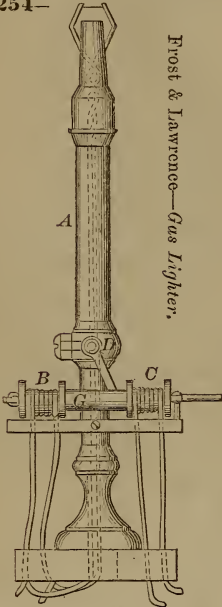


49252—J. J. G. Fisher—Clamp
for Straps.

49253—J. A. Foster—
Artificial Leg.

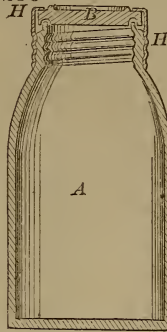


49254—



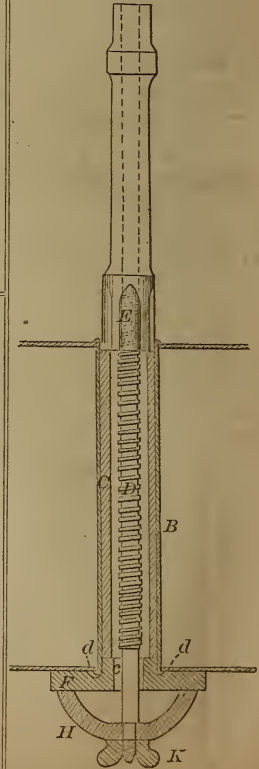
Frost & Lawrence—Gas Lighter.

49256—



Gillinder & Bennett—Fruit Jar.

49255—P. E. Garvin—
Sealing Boilers.

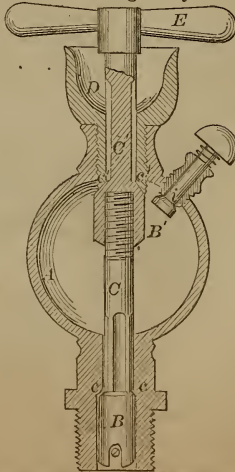


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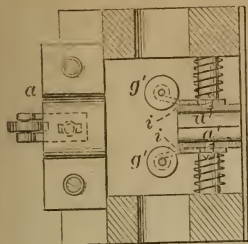
E. P. Gleason—Hook Blank.

49259—G. Hagenmeyer—

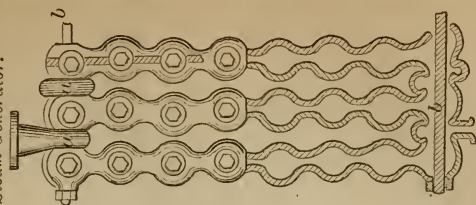


Grease Cup.

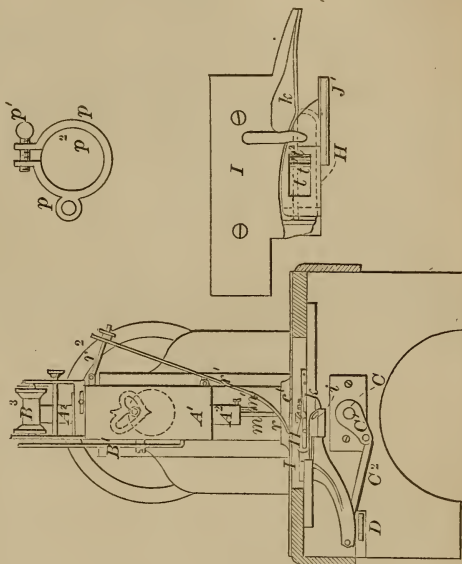
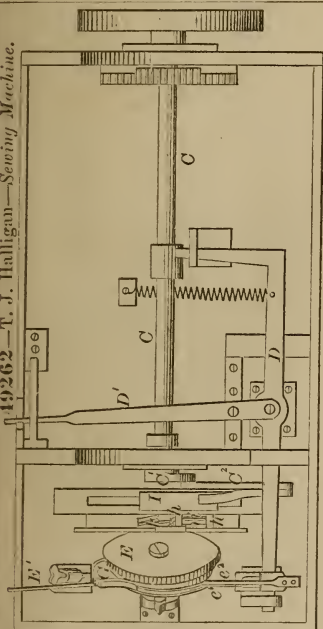
19260—J. A. Hall—*Cane Stripper.*



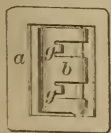
49263—J. Harrison, Jr.—
Steam Generator.



19262—T. J. Halligan—Sewing Machine.

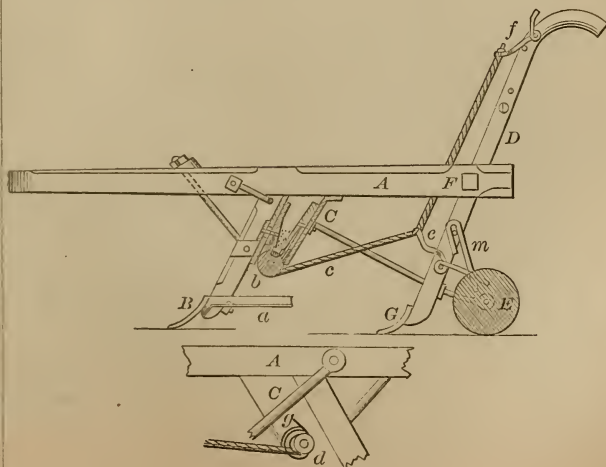


49261—W. S. Hall—




Buckley

49265—A. A. Hazard—*Corn Planter.*

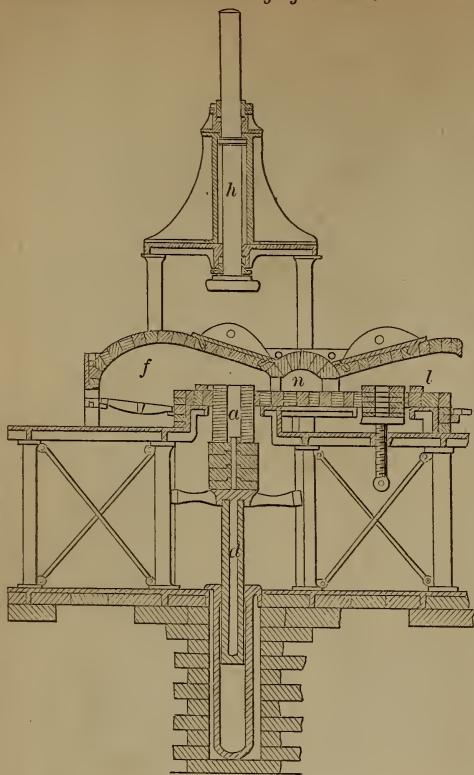
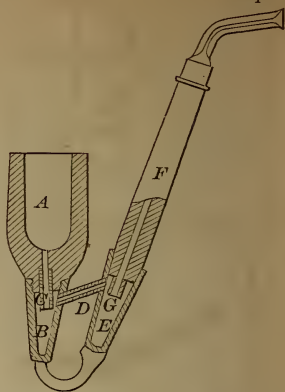
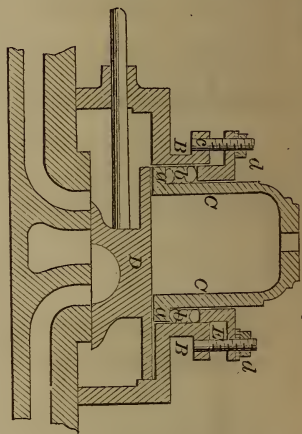
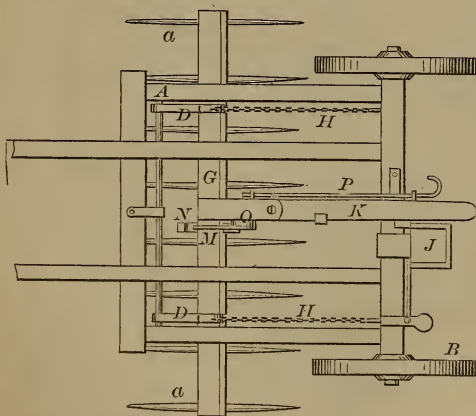
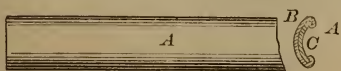
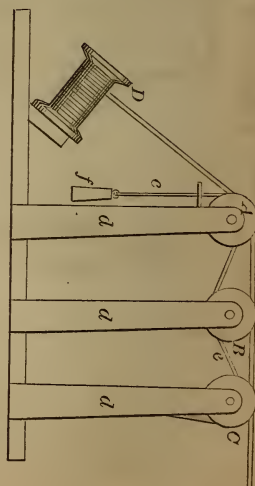


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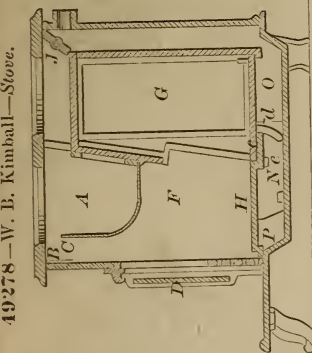


J. Harrison, Jr.—Core for Casting.

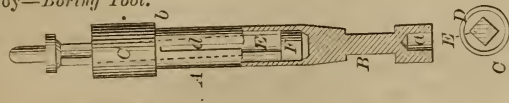


49266—A. Hitchcock—*Forging Cannon.*49268—C. Hoffman—*Tobacco Pipe.*49267—S. F. Hodge—*Valve for Engine.*49269—F. Holden—*Horse Rake.*49270—H. M. Hooper—*Stair Rod.*49271—L. Hull—*Loom.*

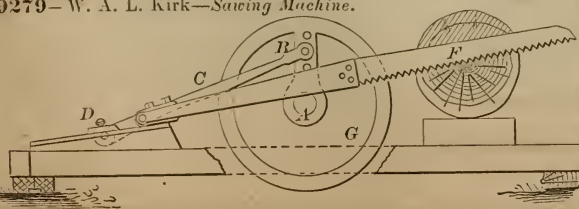
49278—W. B. Kimball—Stove.



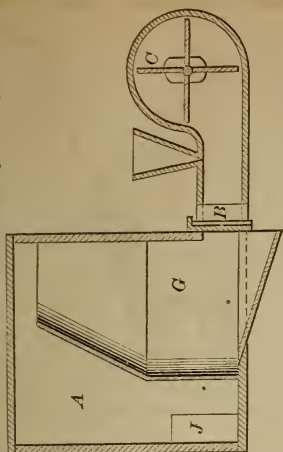
49277—M. Joy—Boring Tool.



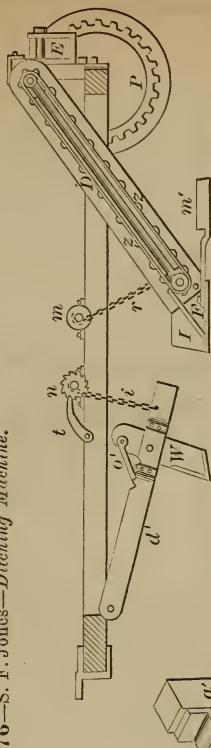
49279—W. A. L. Kirk—Sawing Machine.



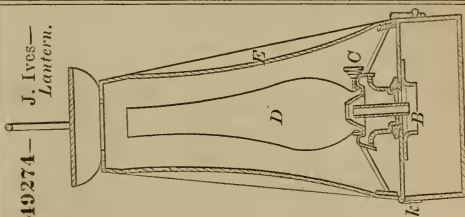
49273—J. & A. Hursh—Separating Ochre from Sand.



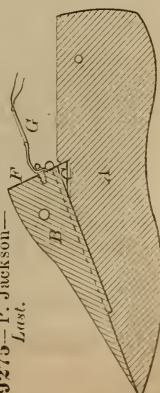
49276—S. F. Jones—Ditching Machine.

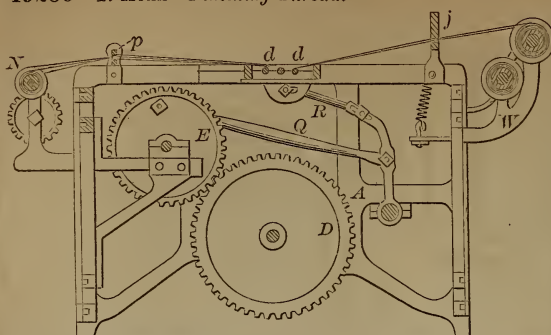
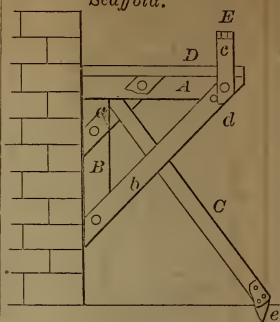
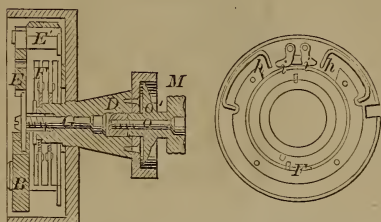
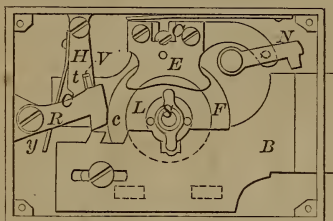
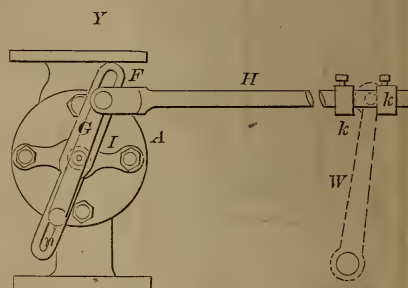


49274—J. Ives—Lantern.

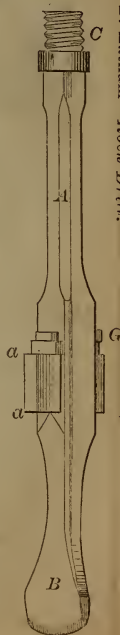
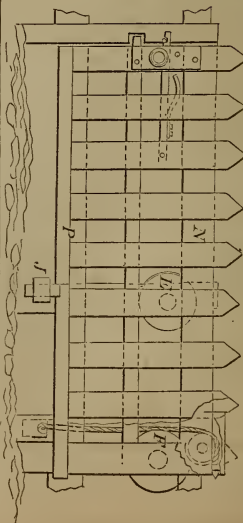
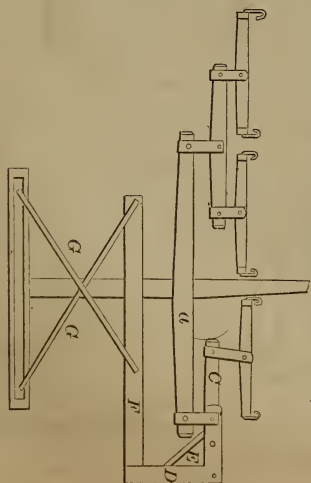


49275—P. Jackson—Last.

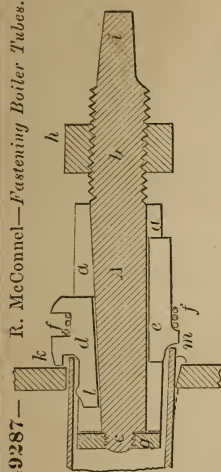


49280—T. Kohn—*Finishing Thread.*49283—H. Littlefield—*Scaffold.*49282—L. Lillie—*Lock.*49284—K. H. Loomis—*Cut-off Valve Gear.*

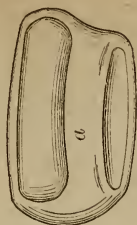
49281—

O. B. Latham—*Rock Drill.*49285—J. M. May—*Gate.*49286—T. L. Markillie—*Whiplow.*

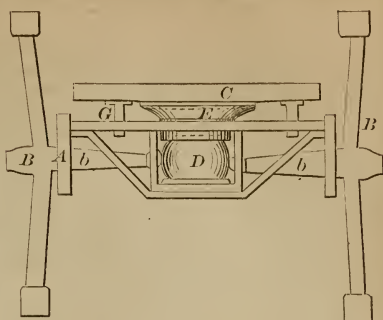
49287—R. McConnel—Fastening Boiler Tubes.



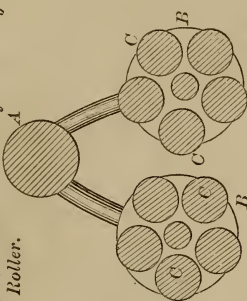
49291—C. A. Moore—Kneekle Shield.



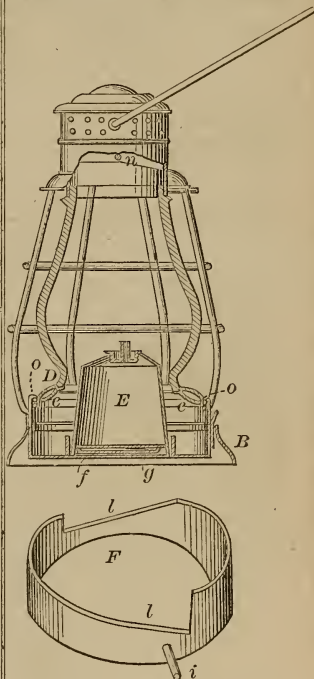
49289—O. E. Miles—Vehicle.



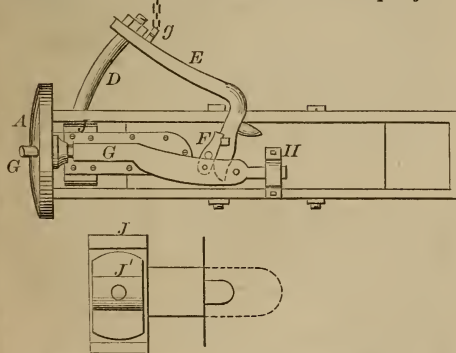
49288—H. L. Meservy—Washing Roller.



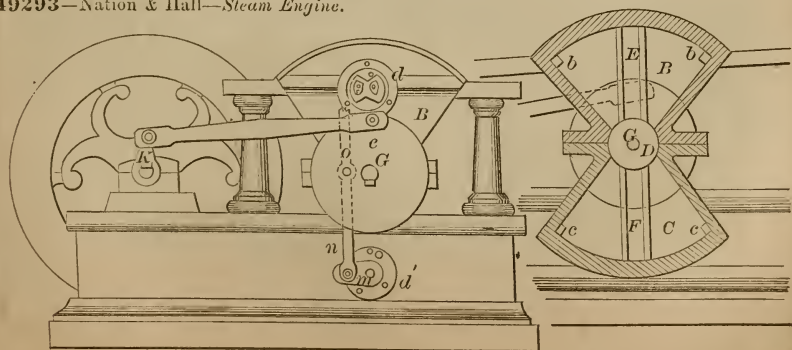
49290—J. H. Miltimore—Lantern.

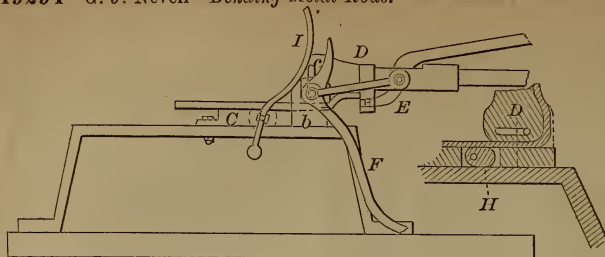


49292—W. C. Morse—Car Coupling.

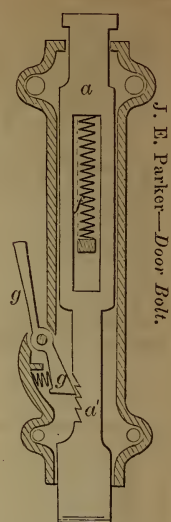
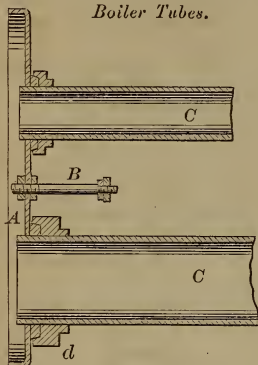
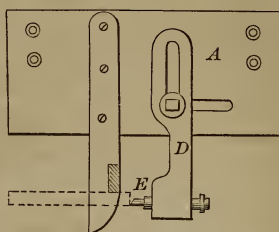
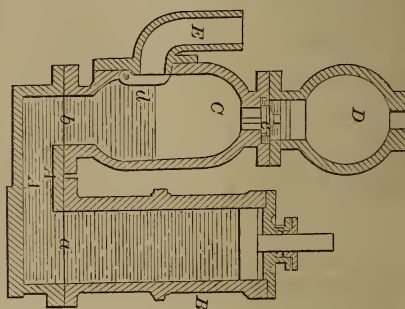
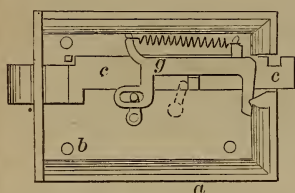
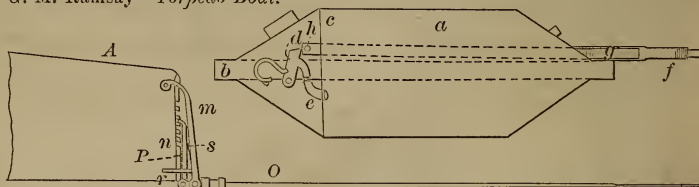
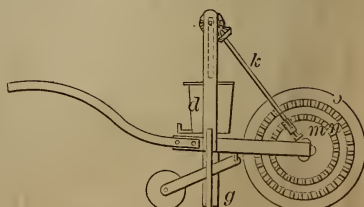
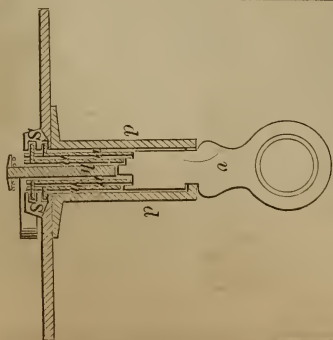


49293—Nation & Hall—Steam Engine.

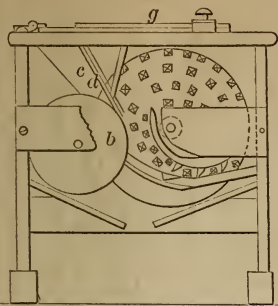


49294—G. J. Neveil—*Bending Metal Rods.*

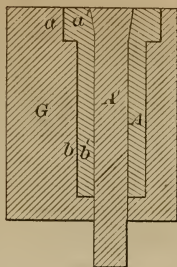
49296—

49295—J. Newkirk—*Packing for Boiler Tubes.*49299—J. Power—*Slicing Cork.*49301—F. Ransom—*Air Pump.*49297—J. Post—*Lock.*49300—G. M. Ramsay—*Torpedo Boat.*49302—E. D. & O. B. Reynolds—*Seeding Machine.*49298—J. Post—*Lock.*

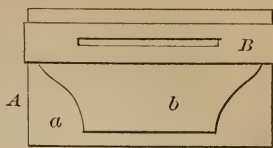
49303—Ricker & Lewis—*Corn Sheller.*



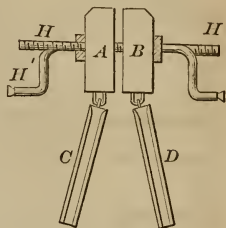
49306—E. P. Russell—*Making Wrist Pins.*



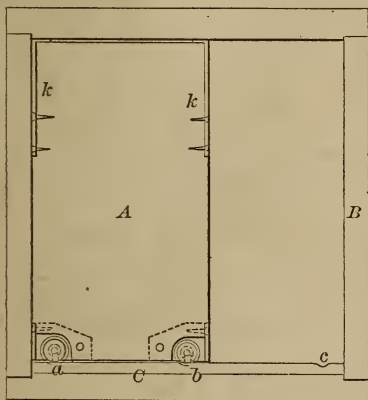
49307—L. Saarbach—*Pocket Book.*



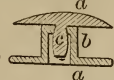
49311—A. Selover—*Hedge Trimmer.*



49308—A. G. Safford—*Sliding Car Doors.*

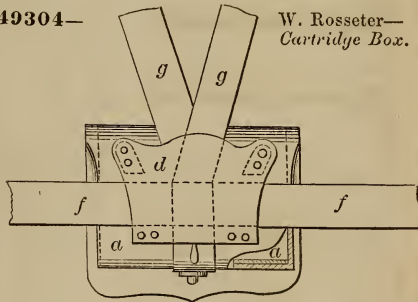


49305—
R. B. Ruggles—*Shirt Stud.*

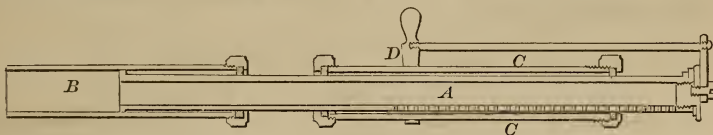


49304—

W. Rosseter—*Cartridge Box.*



49310—F. Seiberlich—*Centrifugal Machine.*



49312—

F. Skinner—*Pulley Tightener.*

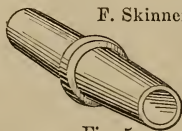


Fig. 5

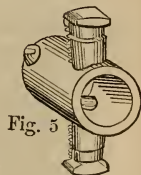
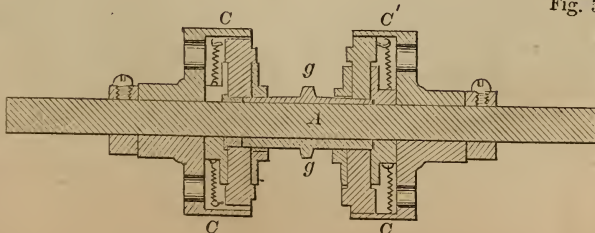
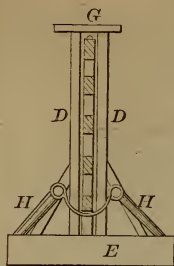


Fig. 5

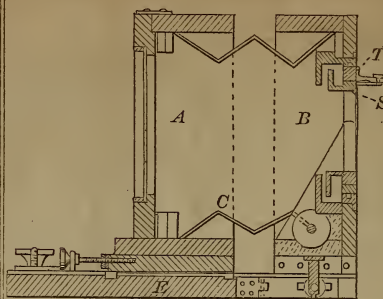
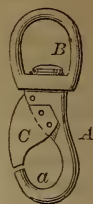


49309—C. W. Saladee—*Buckle.*

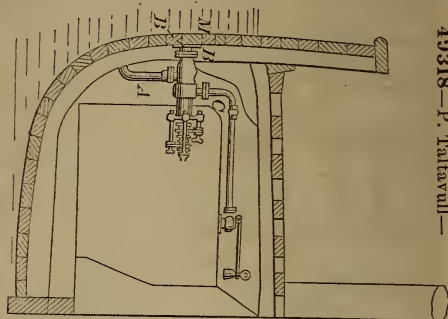
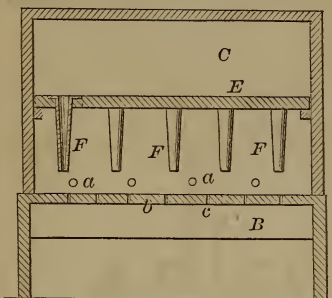
49313—S. Stanbro—Fence.



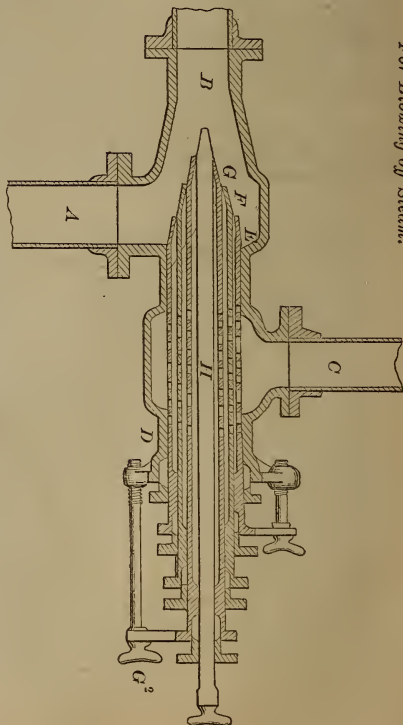
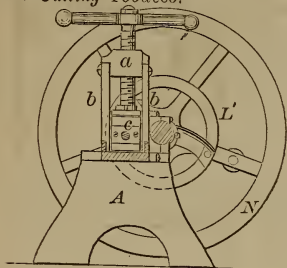
49315—J. Stock—Photographic Camera.

49316—E. E. Stone—
Mousing for Hook.

49314—J. H. Starr—Bee Separator.

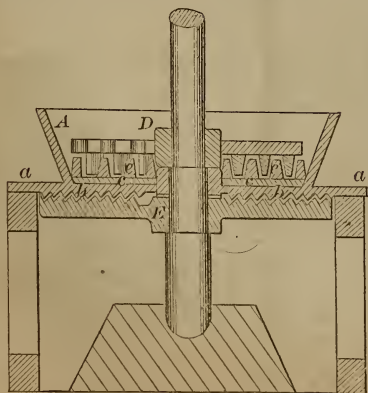


49318—P. Taltavull—

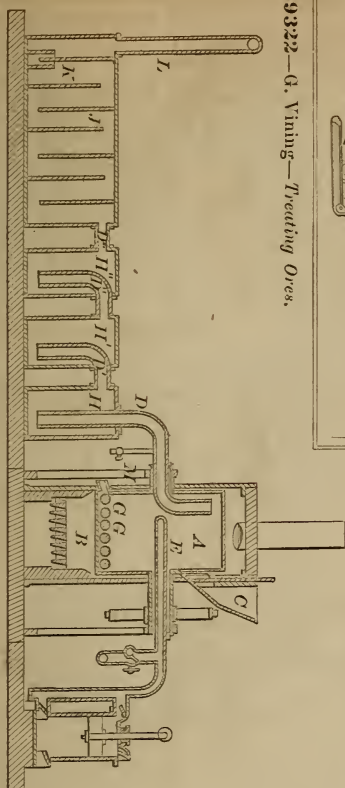
49317—Stratton & Tidemann—
Cutting Tobacco.

For Blowing off Steam.

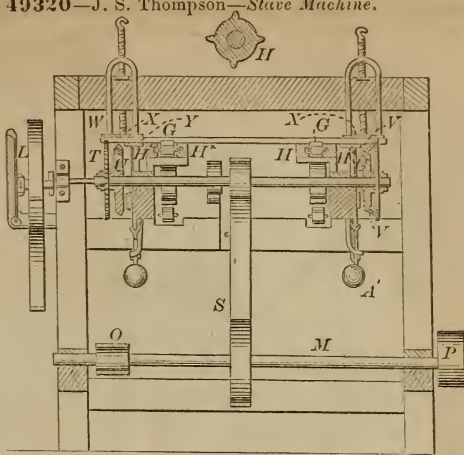
49319—N. S. Thomas—Bark Mill.



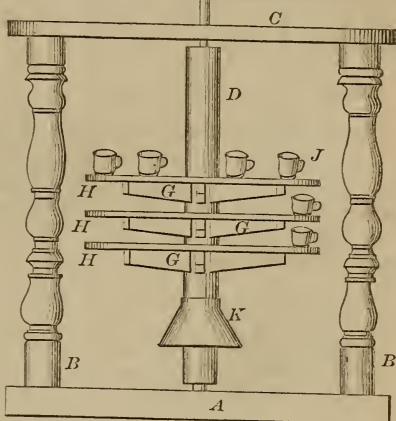
49322—G. Vining—Treating Ores.



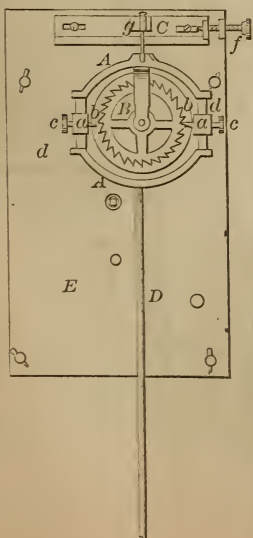
49320—J. S. Thompson—Stave Machine.



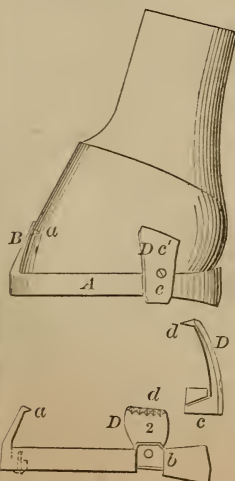
49321—A. R. Titus—Milk Stand.



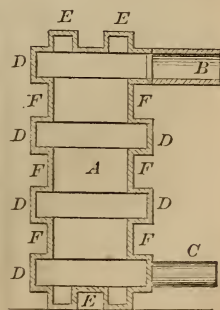
49323—Weaver & Sandifer—Clock Escapement.

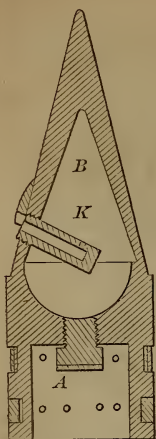
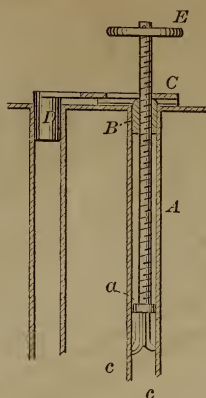
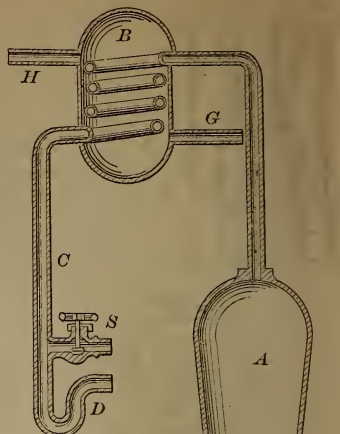
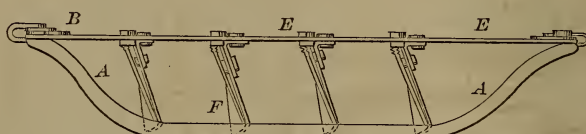
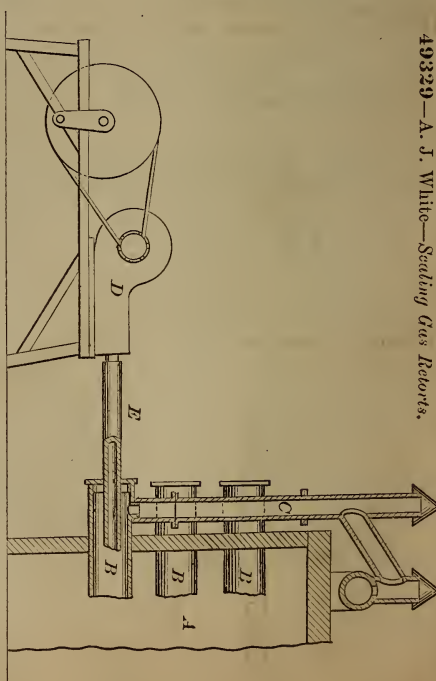
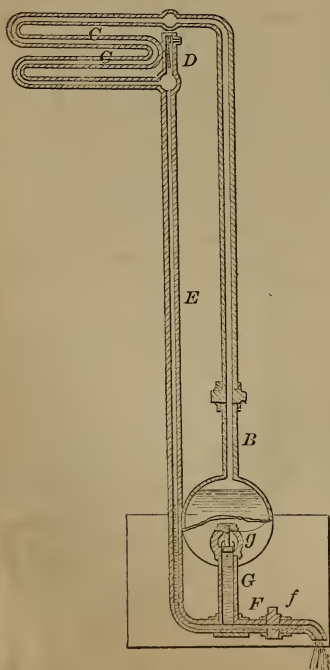


49324—A. Weitman—Horse Shoe.

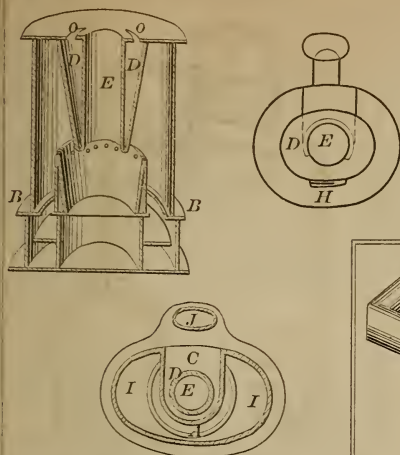


49325—H. H. Welch—Heater.

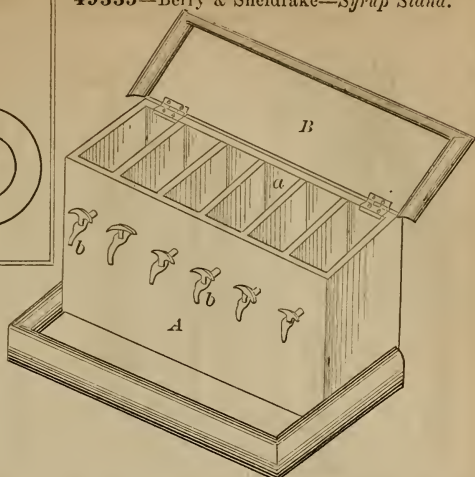


49326—L. Wells—*Explosive Shell.*49327—J. Werner, Jr.—*Sealing Boiler Tubes.*49328—W. P. Wheeler—*Distilling Apparatus.*49330—E. P. Williams—*Grain Shovel.*49332—C. A. Wilson—*Steam Warming.*49329—A. J. White—*Sealing Gas Retorts.*

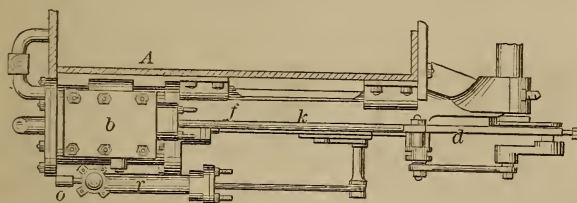
49333—G. G. Wolfe—*Stove.*



49335—Berry & Sheldrake—*Syrup Stand.*



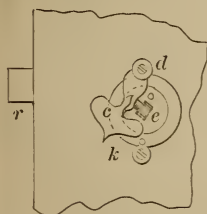
49334—W. Wright—*Steam Engine.*



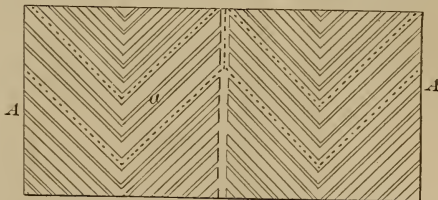
49337—N. H. Bundy—*Gauge, Callipers and Rule.*



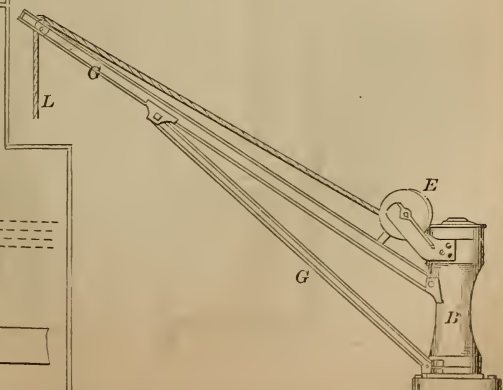
49338—J. H. Desalusse—*Securing Locks.*



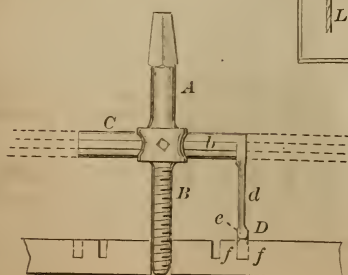
49339—A. M. Dorman—*Weaving Military Insignia.*

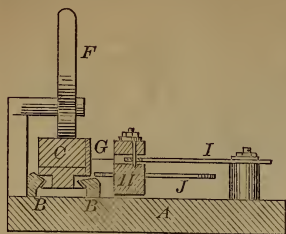
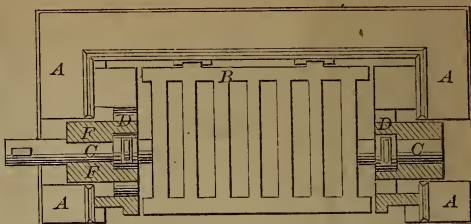
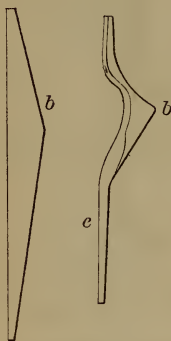
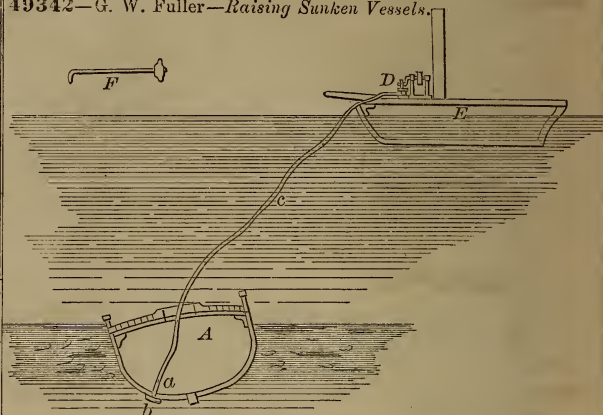
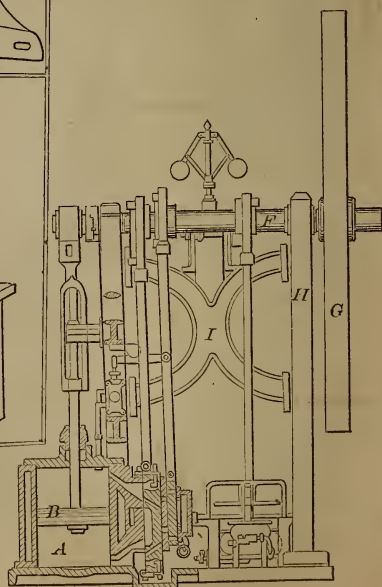
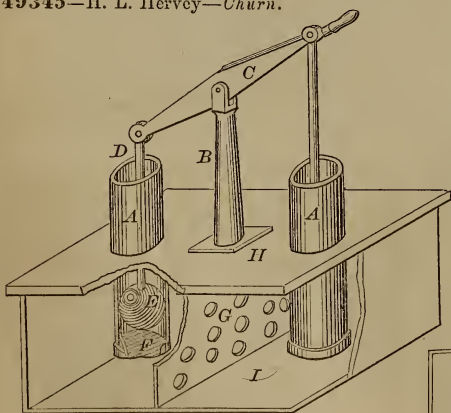


49340—E. Fairbanks—*Oyster Dredge.*

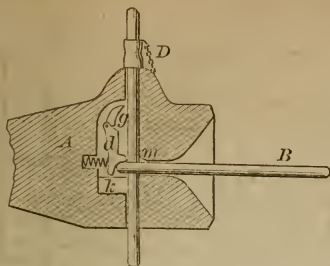


49336—W. Brodhead—*Boring Tool.*

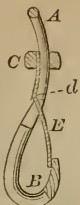


49341—J. Foster—*Spoke Machine.*49344—J. Glass—*Grate.*49343—B. F. Gladding—*Hook Blank.*49342—G. W. Fuller—*Raising Sunken Vessels.*49347—S. B. Hutchinson—*Paper Collar.*49346—P. Hugon—*Gas Engine.*49345—H. L. Hervey—*Churn.*

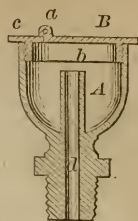
49348—S. D. Locke—*Car Coupling.*



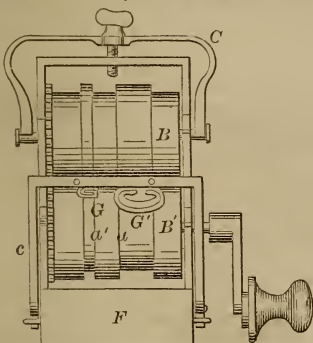
49350—C. Marsh—*Snap Hook.*



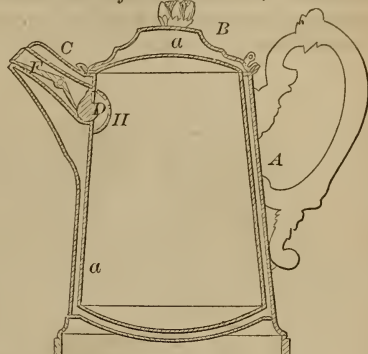
49352—R. Poole—*Oil Cup.*



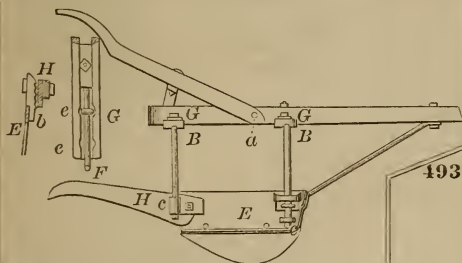
49349—B. U. Lyon—*Welt Machine.*



49351—F. C. Meyer—*Ice Pitcher.*



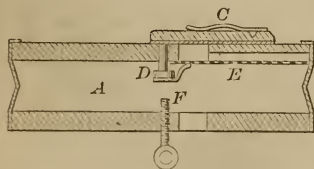
49354—A. Webb—*Horse Hoe.*



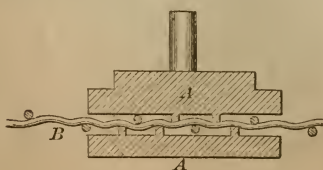
49353—E. Waite—*Felted Fabric.*



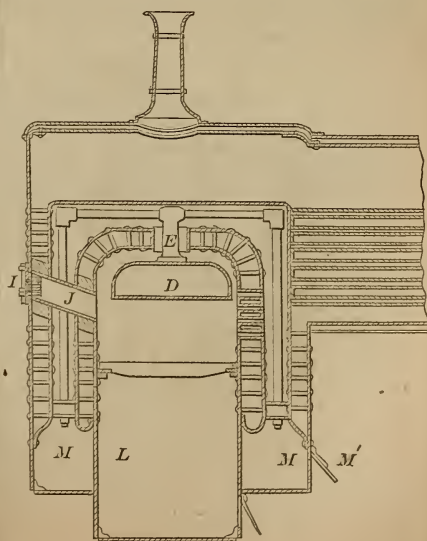
49355—G. Woods—*Cabinet Organ.*

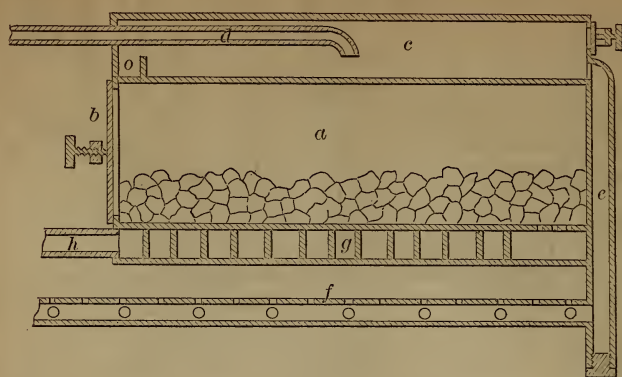
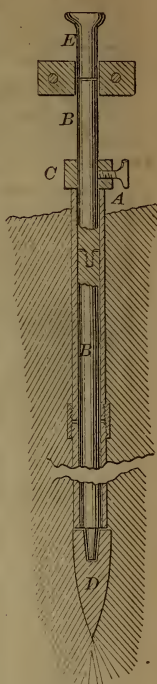
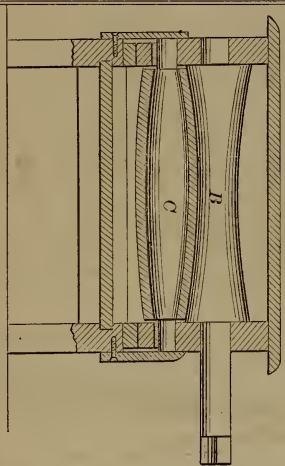
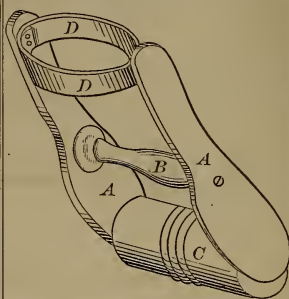


49356—W. Zerns—*Crimping Wire Cloth.*

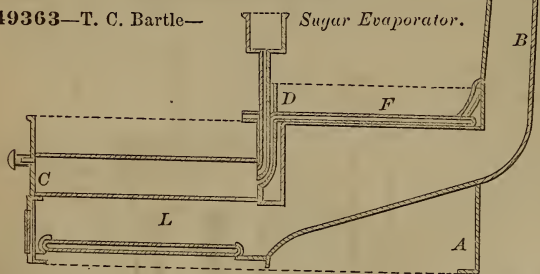
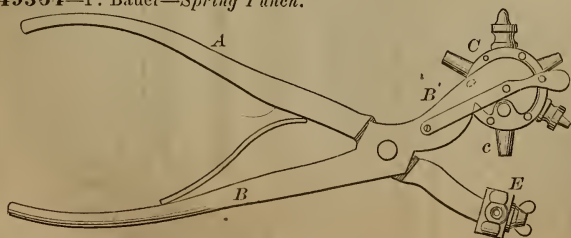
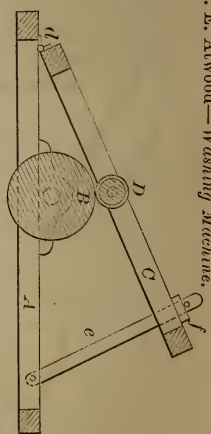


49357—Sim & Barff—*Burning Hydro-Carbon.*



49358—T. Arnold—*Manufacture of Gas.*49362—
H. R. & M. T. Barnes—
Sinking Well Tubes.49361—J. E. Atwood—*Wringing Machine.*49359—J. E. Atwood—
Washing Roller.

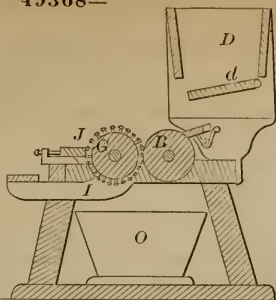
49363—T. C. Bartle—

Sugar Evaporator.49364—P. Bauer—*Spring Punch.*49360—J. E. Atwood—*Washing Machine.*

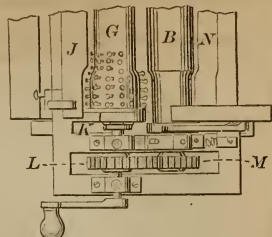
49365—Beall & Shaffer—
Flour Bolt.



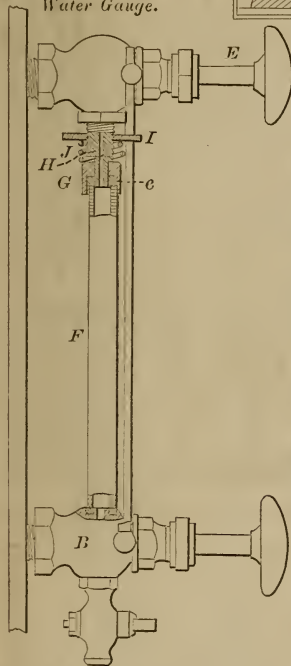
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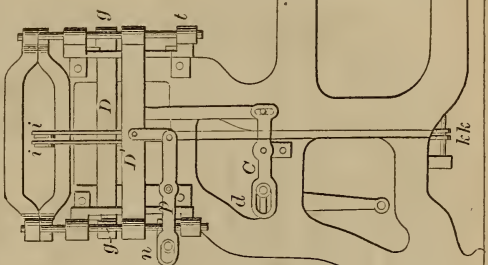
W. & G. Braid—Pipe Core.



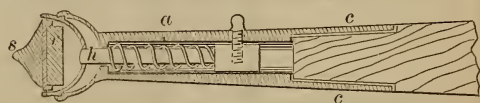
49366—H. Belfield—
Water Gauge.



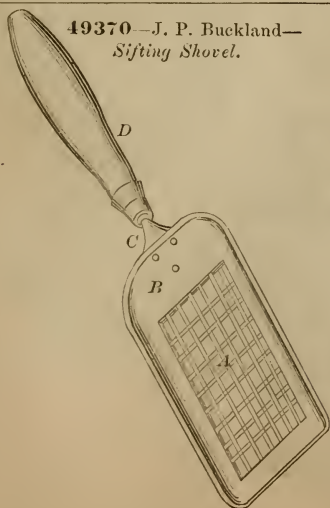
49369—J. Braun—Loom.



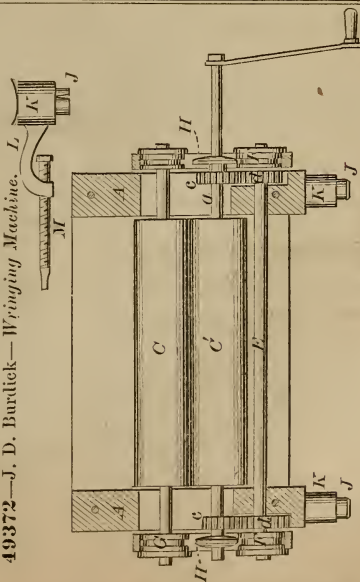
49371—J. G. Bugbee—Revolving Crutch.



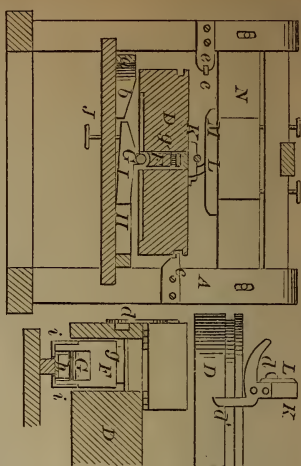
49370—J. P. Buckland—
Sifting Shovel.



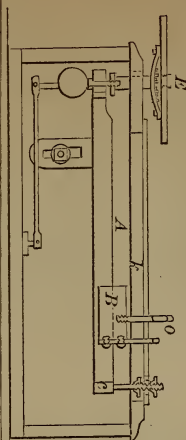
49372—J. D. Burliek—Wringing Machine.



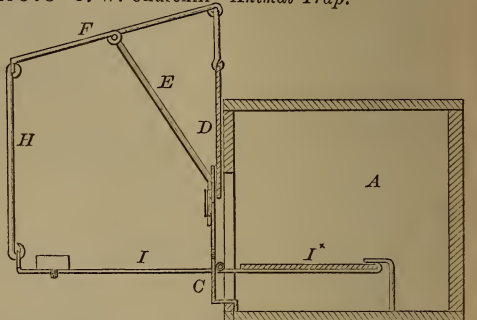
49376—E. P. H. Capron—Brick Machine.



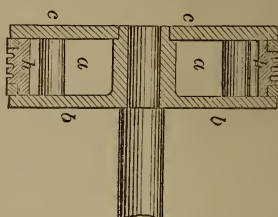
49377—B. Churchill—Weighing Apparatus.



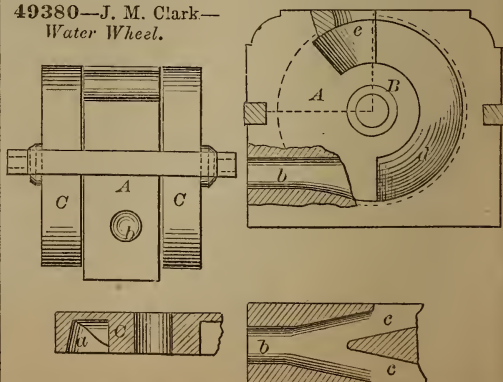
49378—J. W. Churchill—Animal Trap.



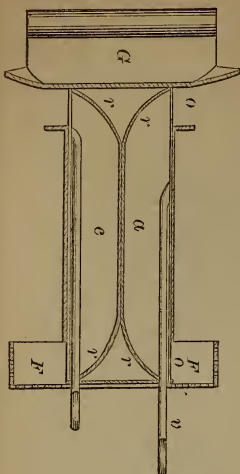
49379—D. Clark—Piston Packing.



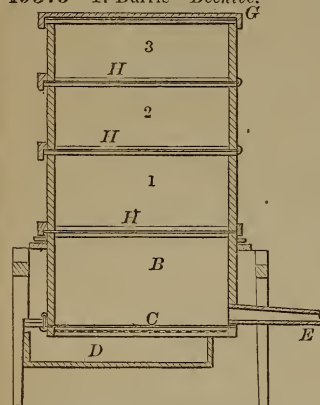
49380—J. M. Clark—Water Wheel.



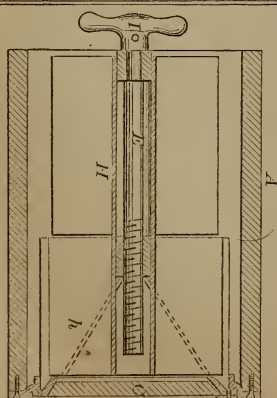
49373—B. J. Burnett—House Ventilator.



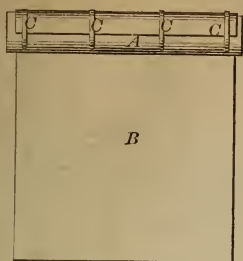
49375—T. Burris—Beehive.



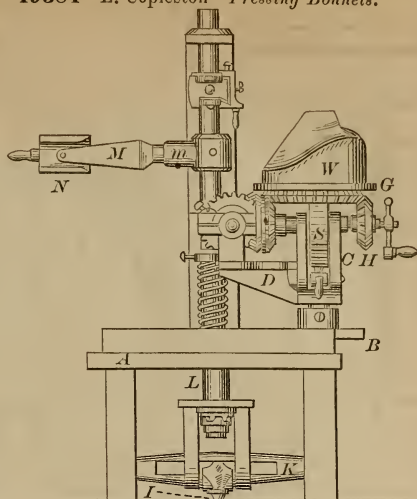
49374—B. J. Burnett—Ship Ventilator.



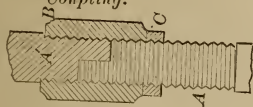
49381—J. R. Cook—*Curtain Fastening.*



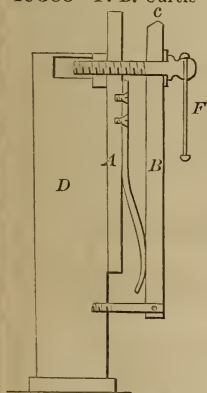
49384—E. Copleston—*Pressing Bonnets.*



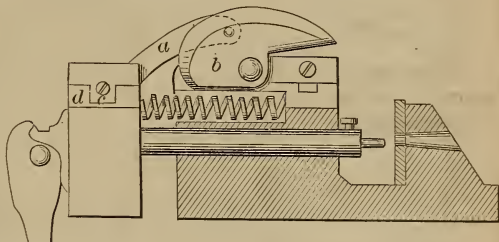
49386—J. R. Cross—*Pump Rod Coupling.*



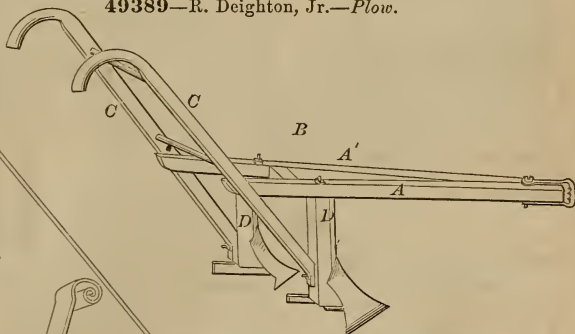
49388—F. B. Curtis—*Vise.*



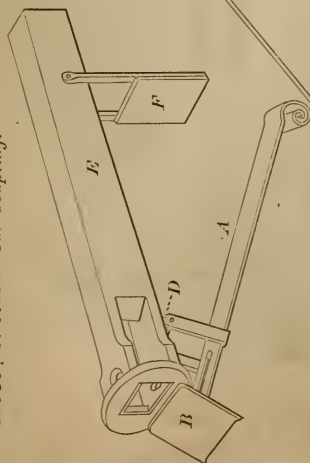
49387—C. L. Crowell—*Tire Machine.*



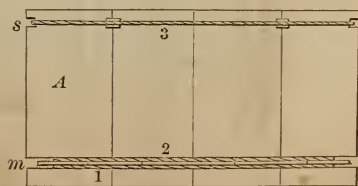
49389—R. Deighton, Jr.—*Plow.*

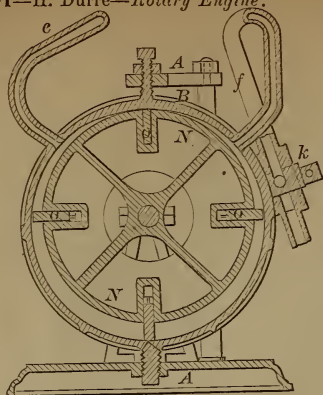
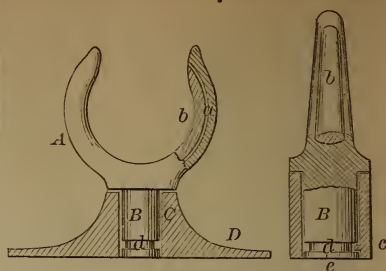
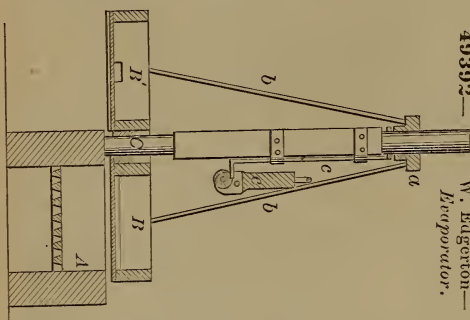
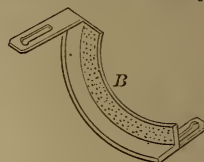


49385—J. Couch—*Car Coupling.*

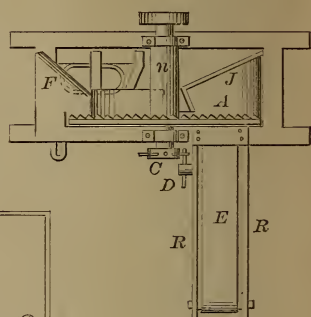
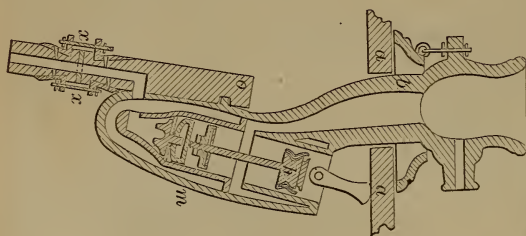
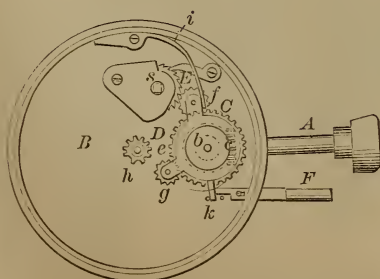
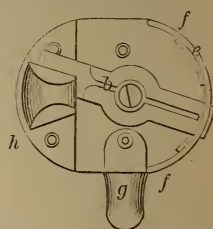
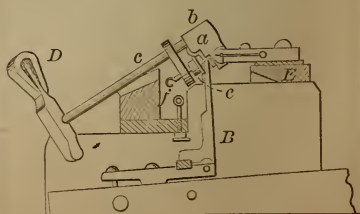


49390—J. H. Doolittle—*Fruit Basket.*

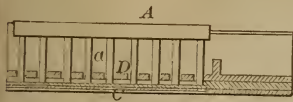


49391—H. Durre—*Rotary Engine.*49395—I. C. & F. W. Flagg—*Row Lock.*49396—I. Fulton—*Cutting Fodder.*

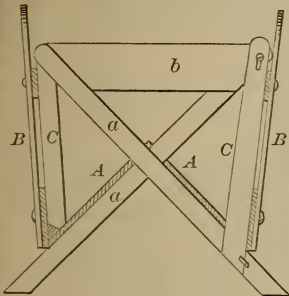
49392—

W. Edgerton—*Brepaporator.*49393—J. Edson—*Ships' Pump.*49397—F. A. Giles—*Winding Watches.*49398—B. P. Grover—*Cupboard Latch.*49394—F. Farholtz—*Piano.*

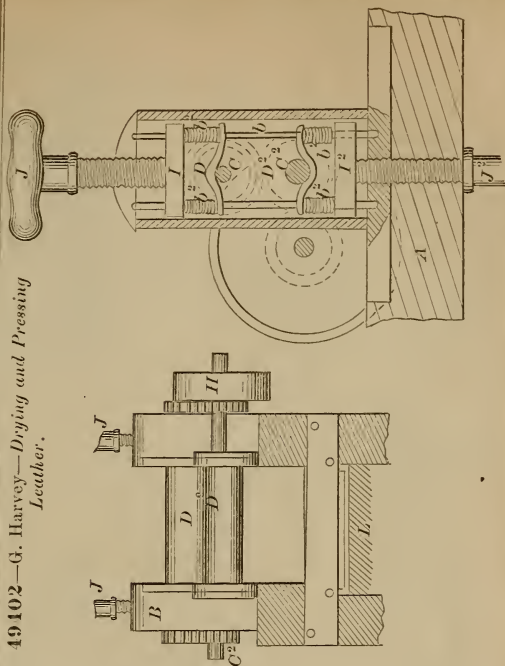
49399—A. Gunther—Piano.



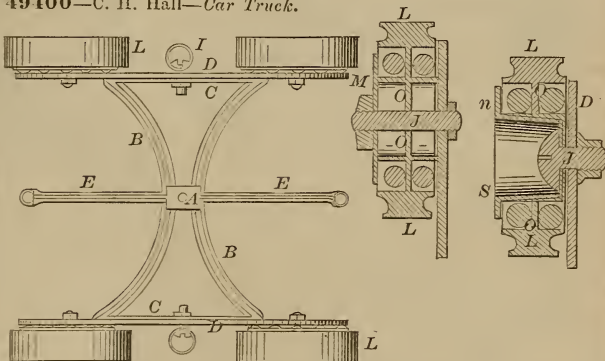
49403—C. M. Hicks—Sheep Rack.



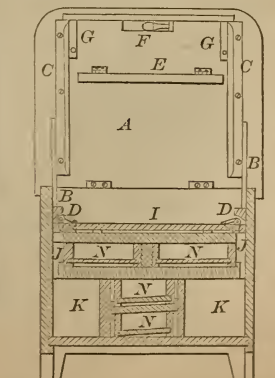
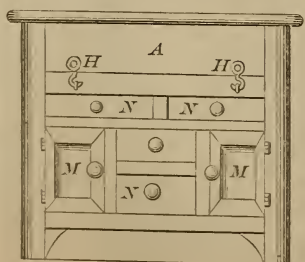
49102—G. Harvey—Drying and Pressing Leather.



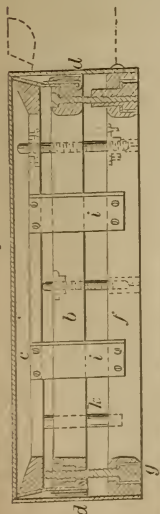
49400—C. H. Hall—Car Truck.



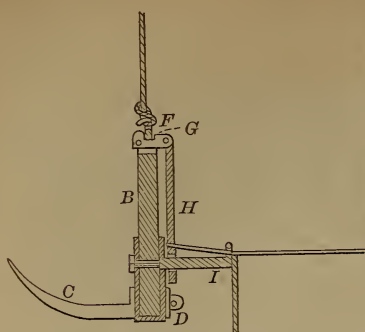
49404—M. W. Hill—Flour Chest.



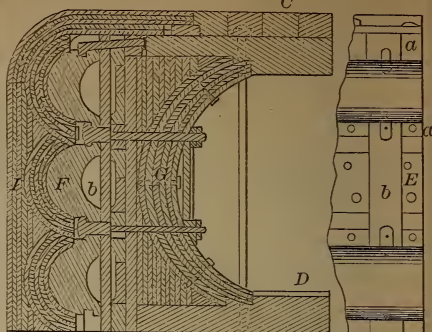
49401—F. W. Harlass—Banjo.



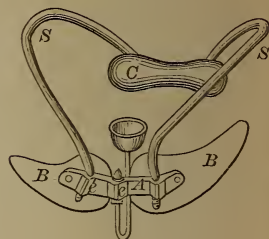
49405—N. D. Hinman—Horse Hay Fork.



49407—C. O. Holyoke—Ship's Armor.

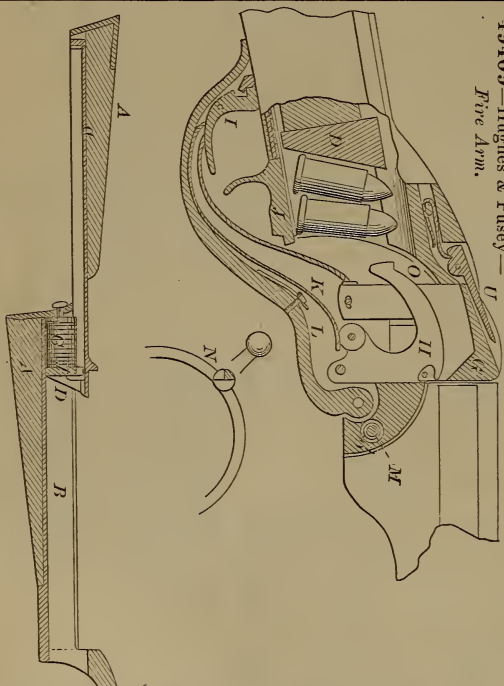


49406—S. L. Hockett—Uterine Supporter.

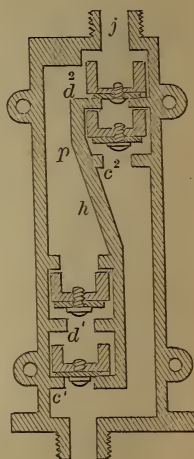


49409—Hughes & Pusey—

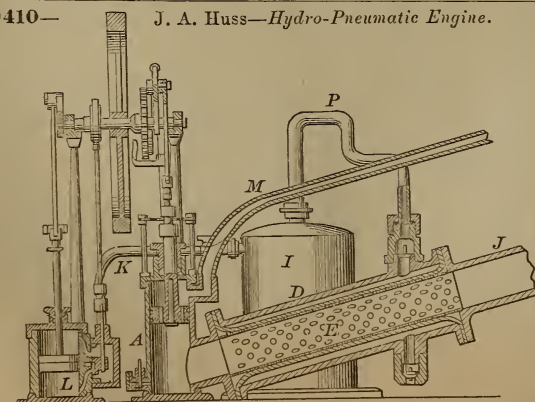
Fire Arm.



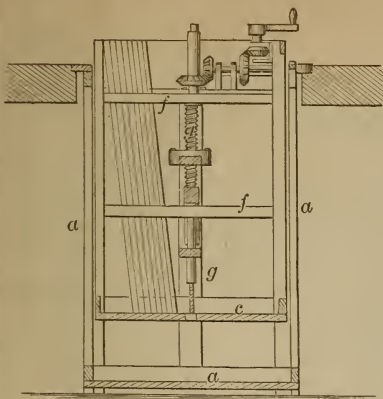
49408—W. D. Hooker—Pump.



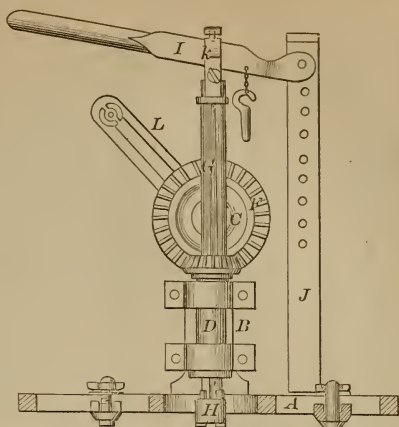
49410—J. A. Huss—Hydro-Pneumatic Engine.



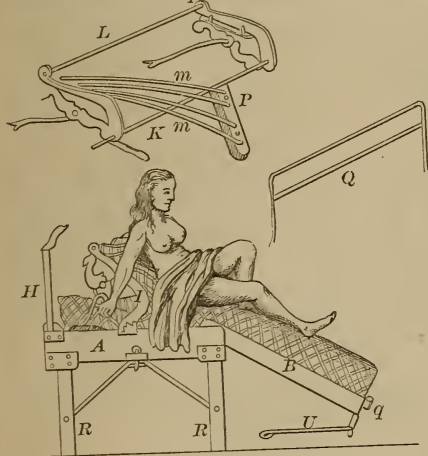
49411—J. Ingram—Shutter Case.



49416—C. H. Keener—Scale Borer for Boilers.



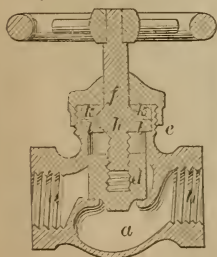
49412—A. Iske—Hospital Bedstead.



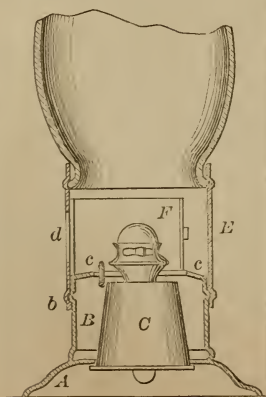
49415—J. L. Joyce—Shoes..



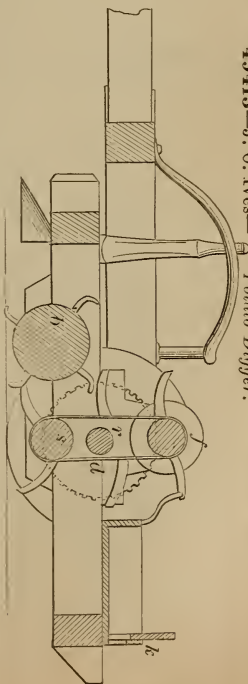
49414—J. Johnson—
Steam Valve.



49417—J. Kintz—Lantern.

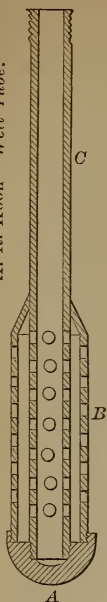


49413—J. O. Ivos—
Potato Digger.

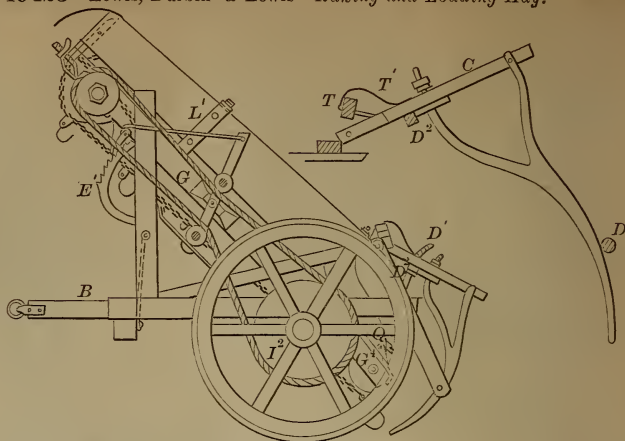
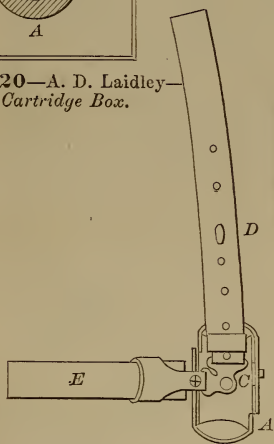


49418—

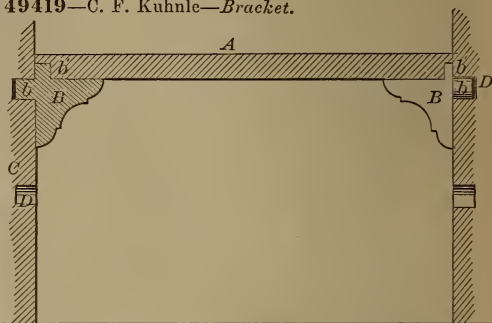
H. R. Koon—Well Tube.



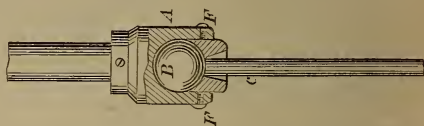
49423—Lewis, Durbin & Lewis—Raking and Loading Hay.

49420—A. D. Laidley—
Cartridge Box.

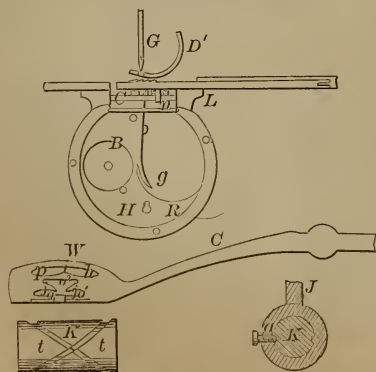
49419—C. F. Kuhnle—Bracket.



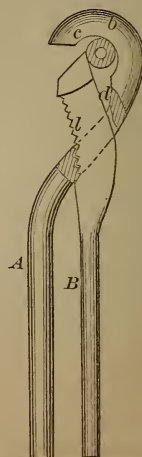
49422—C. W. Le Count—Governor Valve.



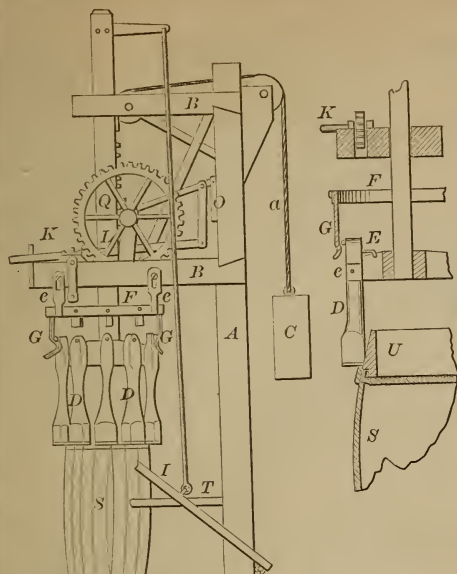
49421—Lamb & Allen—Sewing Machine.



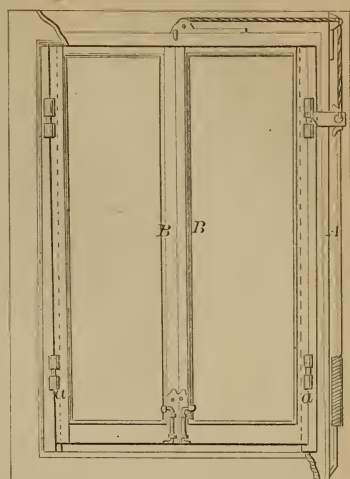
49424—A. B. Lipsey—Gas Fitters' Tongs.



49425—J. A. Loomis—Hooping Barrels.



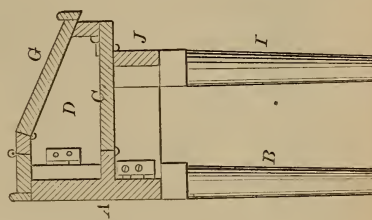
49426—W. Maurer—Window.



49427—J. S. McIntire—Moving Buildings.



49428—J. E. McNee—
Folding Desk.



49430—I. Morley—Brick Machine.

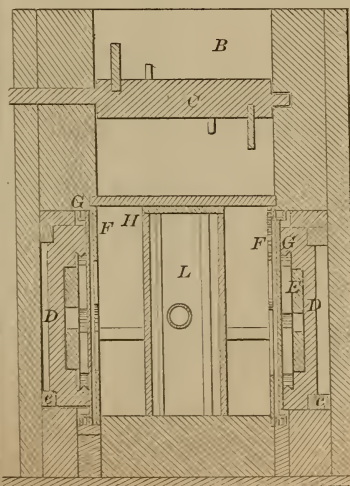
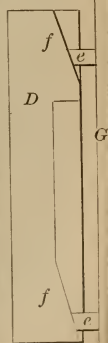
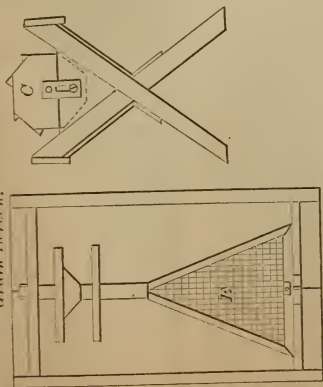


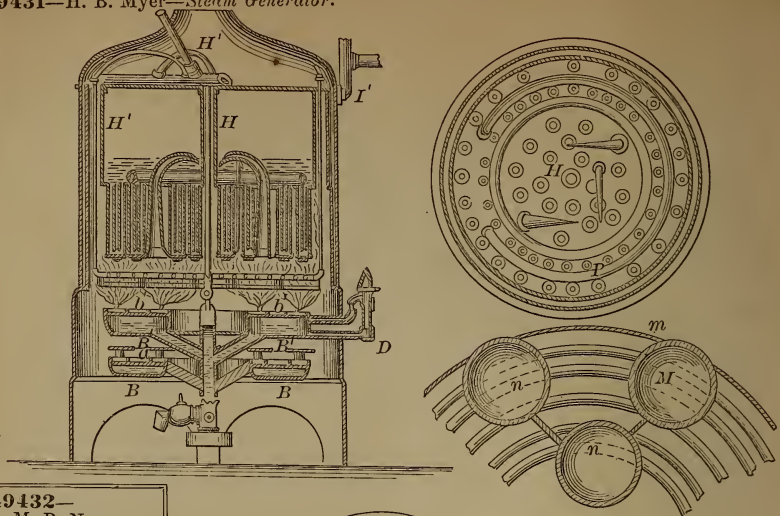
Fig. 5



49429—C. T. & J. B. Messinger—
Grain Screen.



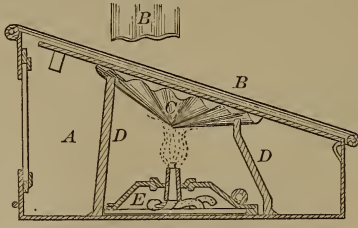
49431—H. B. Myer—*Steam Generator.*



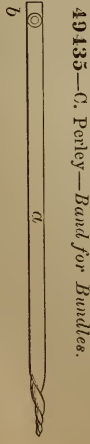
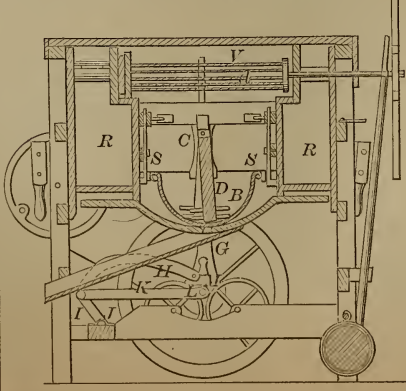
49432—
M. P. Norton—*Cancelling Stamp.*



49433—A. Palmer—*Foot Warmer.*

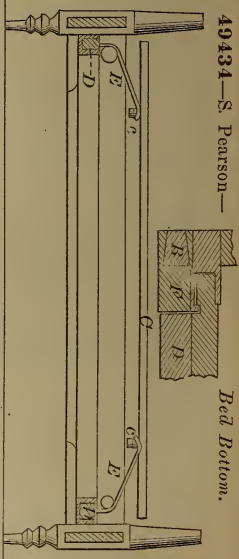


49436—M. Pike—*Washing Machine.*



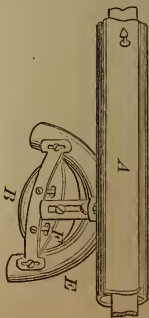
49435—C. Perley—*Band for Bundles.*

49434—S. Pearson—

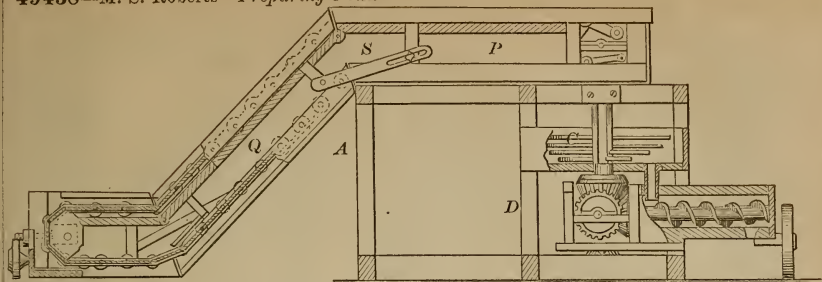


Bed Bottom.

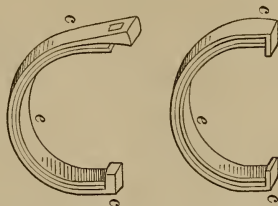
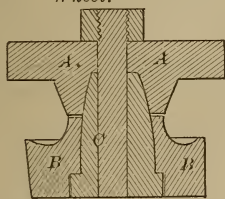
49437—S. S. Ritter—*Truss.*



49438—M. S. Roberts—Preparing Peat.

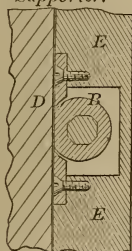


49439—E. P. Russell—Harvester Wheel.

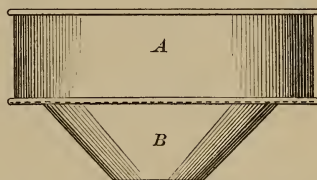


49440—L. Sanford—Tree Protector.

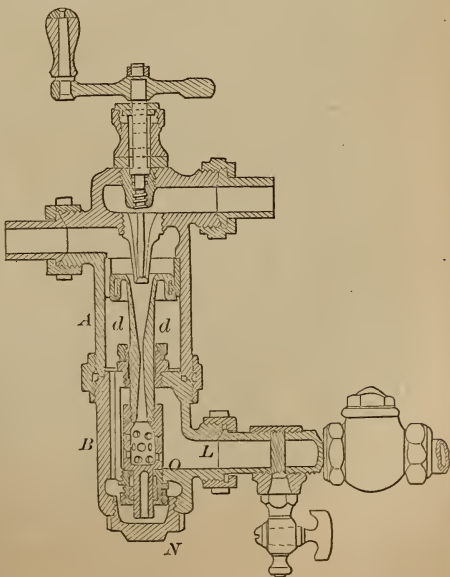
49442—A. M. Sawyer—Sash Supporter.



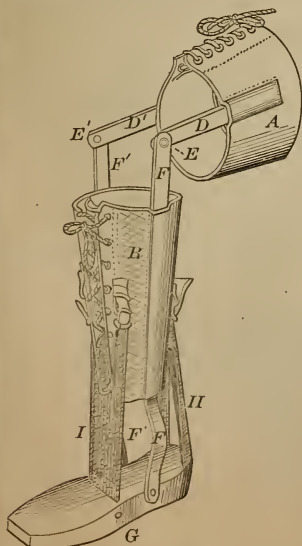
49441—H. W. Sargeant, Jr.—Flour Sifter.



49445—W. Sellers—Injector.



49443—J. Schneider—Artificial Leg.



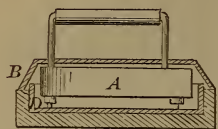
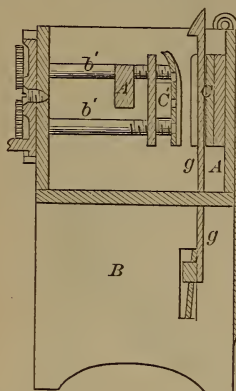
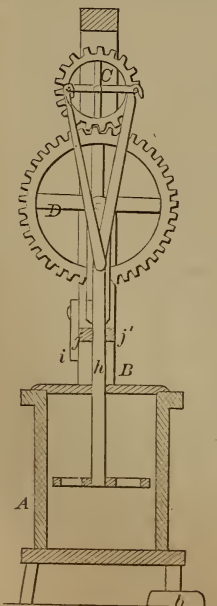
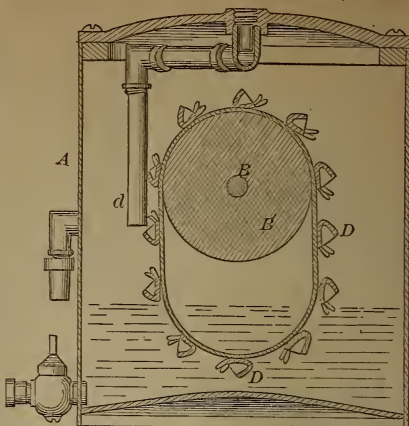
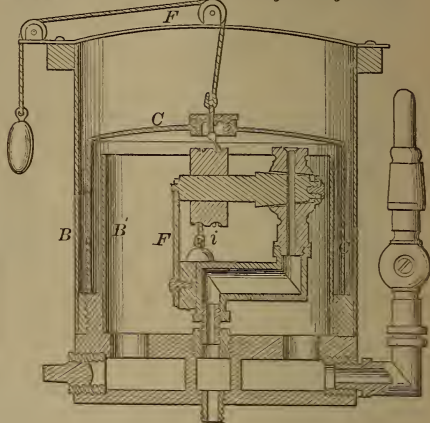
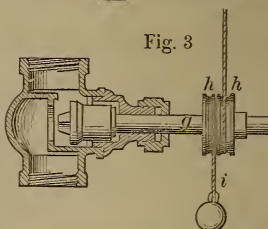
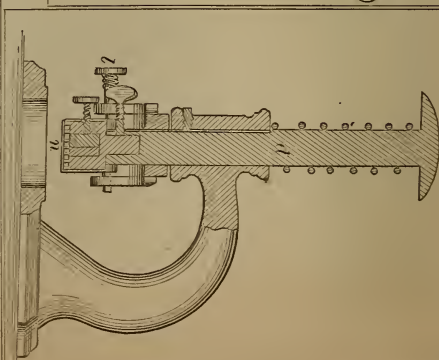
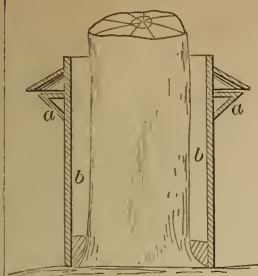
49446—D. L. Shaw—*Sad Iron.*49447—S. J. Sherman—*Hoop Skirt Joint.*49451—J. Small—*Tempering Files.*49450—W. H. Slonaker—*Churn.*49448—W. A. Simonds—*Carburetting Air.*49449 W. A. Simonds—*Regulating Gas.*

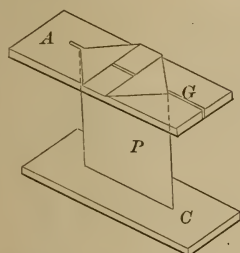
Fig 3

49452—S. J. Smith—*Hand Stamp.*

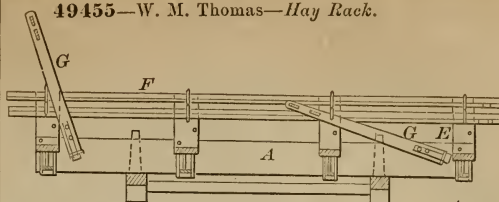
49453—J. C. Starbuck—*Tree Protector.*



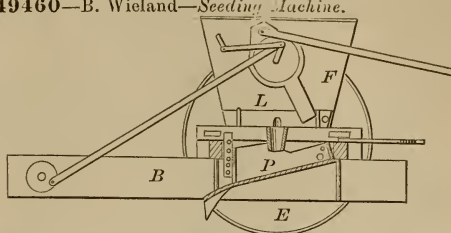
49454—B. B. Taggart—*Paper Bags.*



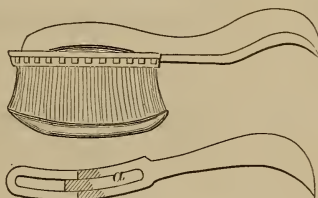
49455—W. M. Thomas—*Hay Rack.*



49460—B. Wieland—*Seeding Machine.*



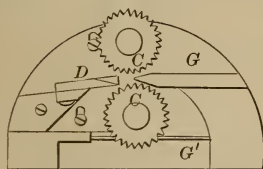
49457—A. Van Dusen—*Brush.*



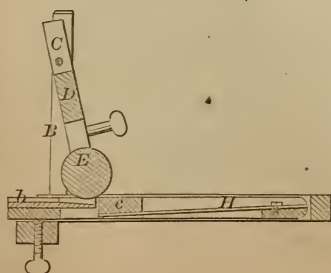
49458—J. T. Walker—*Cleaning Lamp Chimneys.*



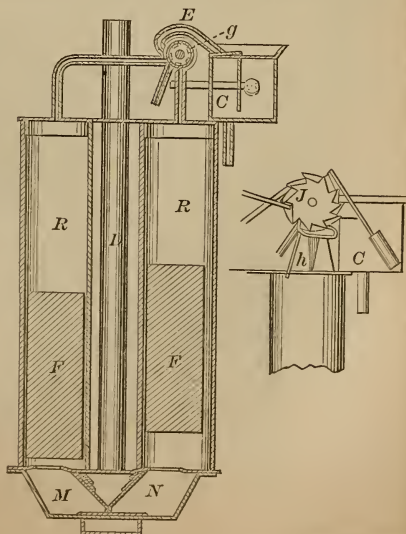
49456—S. D. Tripp—*Shank Cutting.*

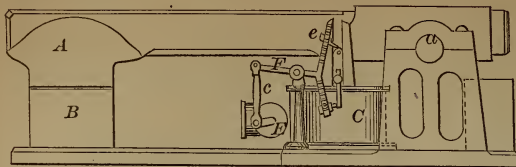
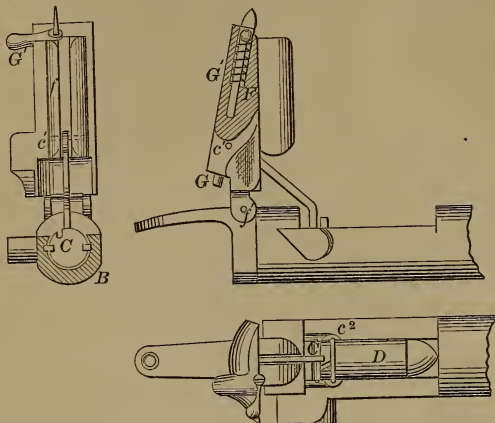
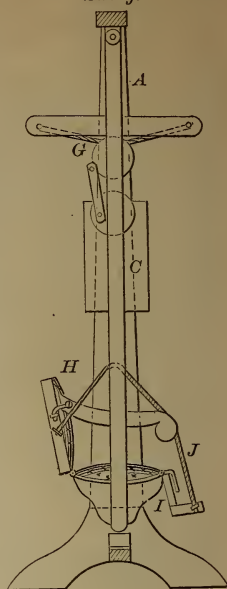
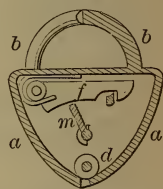
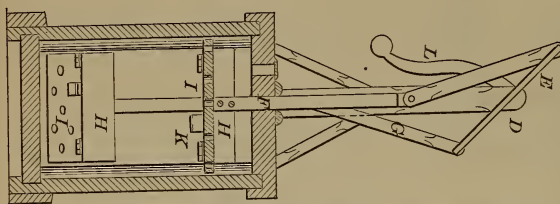
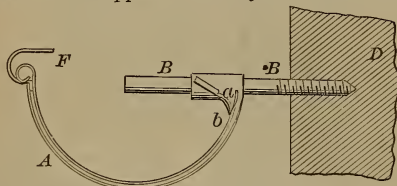
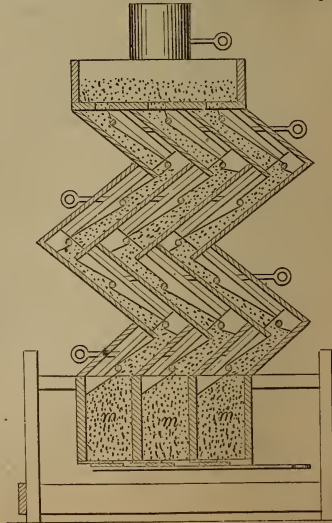
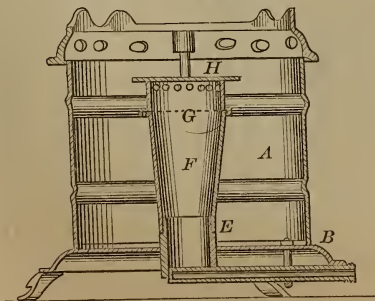


49459—J. Wehr—*Cutting Leather.*



49461—M. Wilcox—*Steam Pump.*

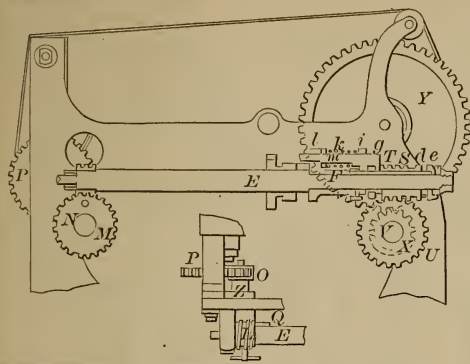


49462—C. W. Willard—*Steam Hammer.*49463—Wilson & Flather—*Fire Arm.*49465—F. R. Wolfinger—*Swing.*49468—H. D. Blake—*Padlock.*49464—B. L. Winner—*Churn.*49466—W. Yapp—*Eave Trough Bracket.*49470—L. S. Chichester—*Grain Dryer.*49469—E. J. Caldwell—*Gas Stove.*

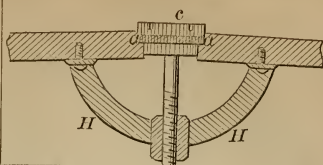
49471—J. Fallows—*Sheet Metal Spoon.*



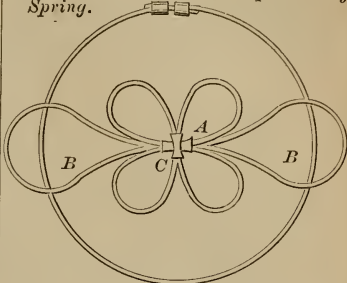
49472—H. Fiske—*Loom.*



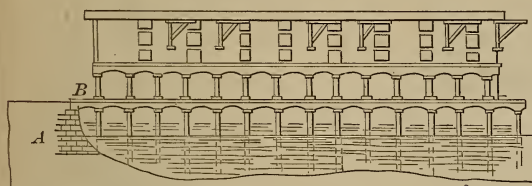
49473—M. Hickey—*Barrel Bung.*



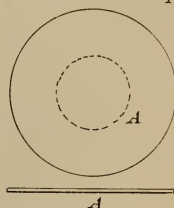
49476—W. H. Mallory—*Upholstering Spring.*



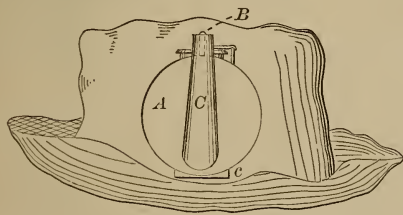
49475—J. B. Hyde—*Wharf, Pier and Warehouse.*



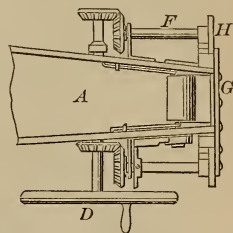
49474—H. Holden—*Torpedo.*



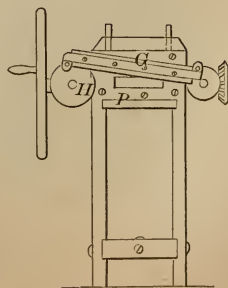
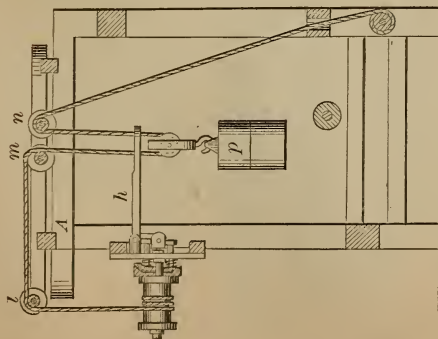
49477—W. McClave—*Miners' Lamp.*

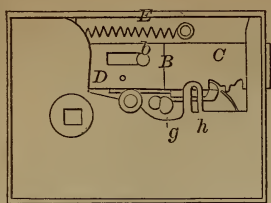
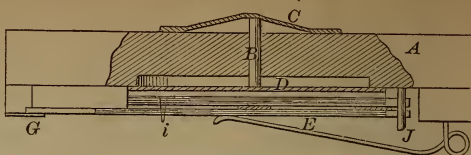
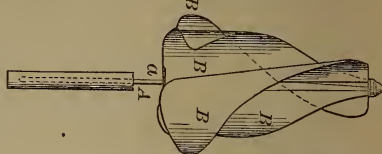
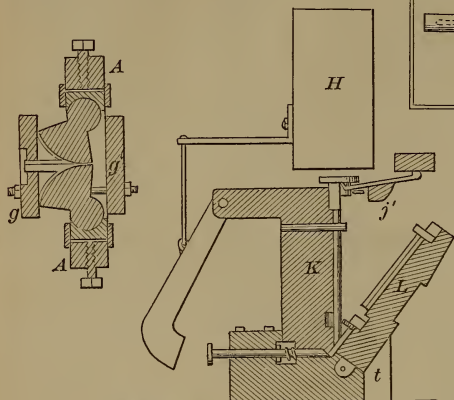
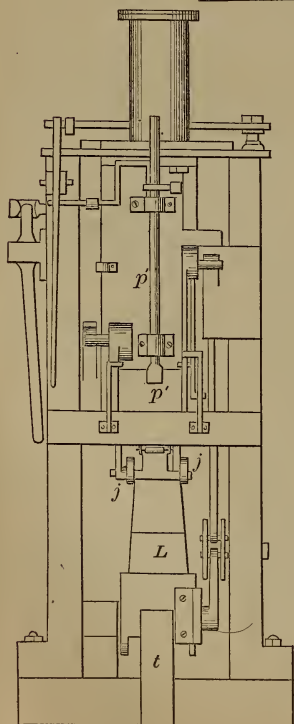
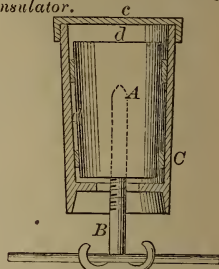
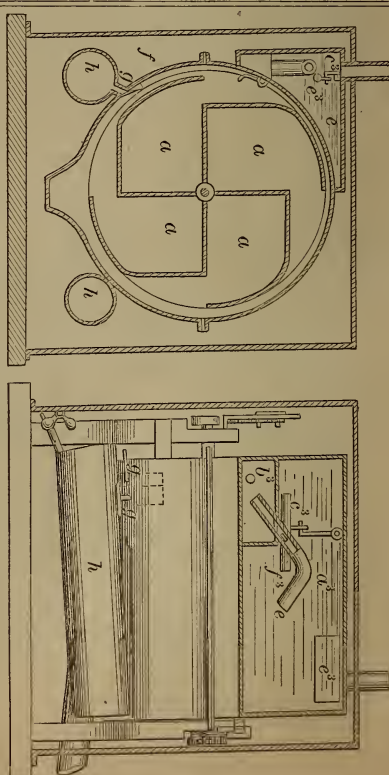


49478—J. McMahon—*Straw Cutter.*

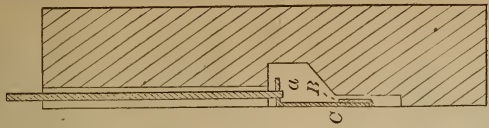


49479—W. W. Pomeroy—*Loom.*

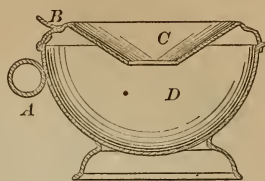


49481—H. B. Tyler—*Lock.*49483—G. Woods—*Musical Instrument.*49485—H. O. Cook—*Wind Wheel.*49484—A. Alexander—*Bolt Machine.*49482—H. H. Ward—*Telegraph Insulator.*49486—Cox, J. & W. Murphy—*Spirit Meter.*

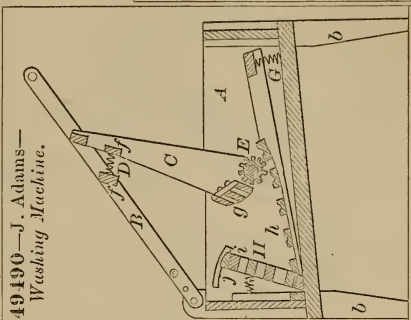
49189—H. J. Adams—Attaching Sash Cord.



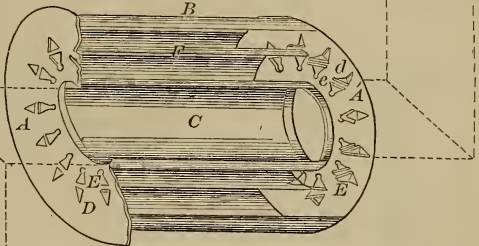
49493—L. W. Barguet—Spittoon.



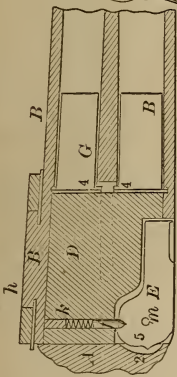
49490—J. Adams—Washing Machine.



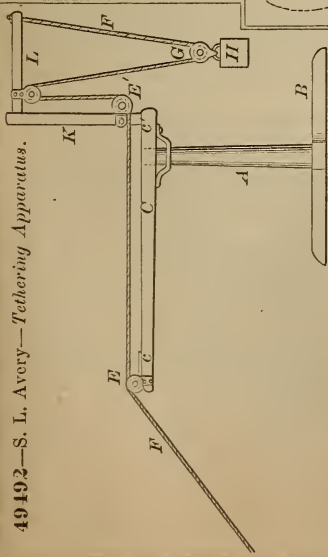
49494—S. W. Bartholomew—Store Pipe Thimble.



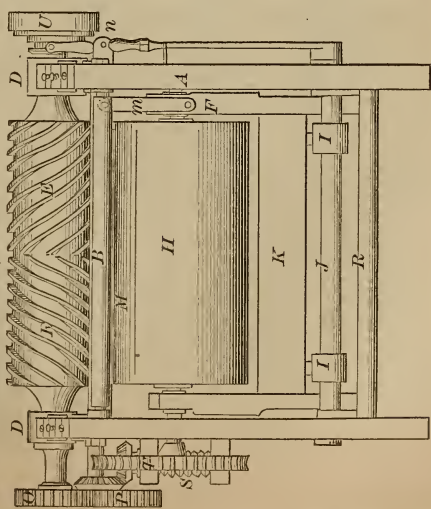
49491—E. Allen—Fire Arm.

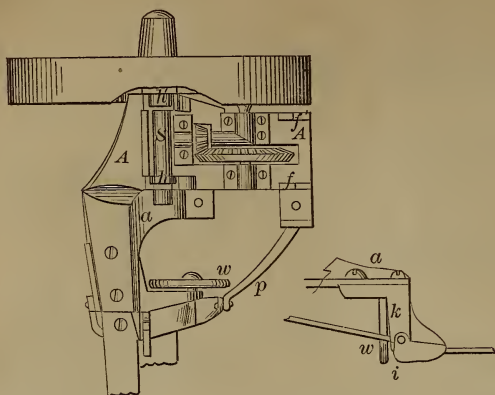
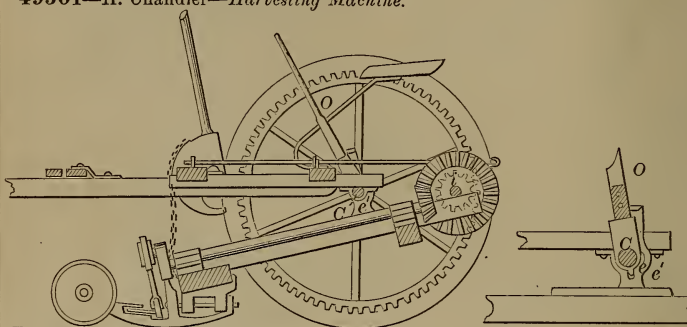
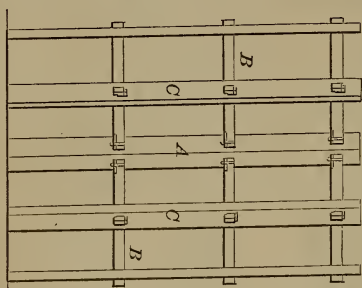
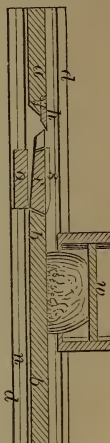
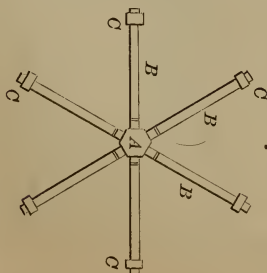
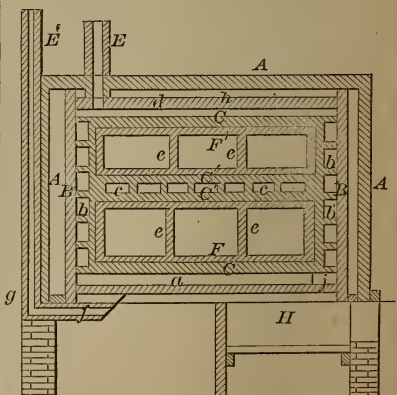


49492—S. L. Avery—Tethering Apparatus.

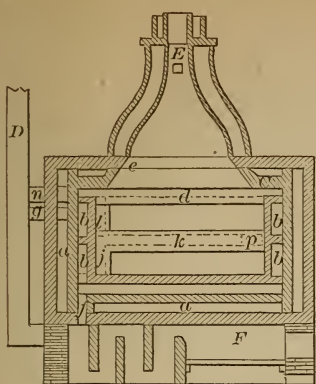


49496—M. Bray—Treating Hides.

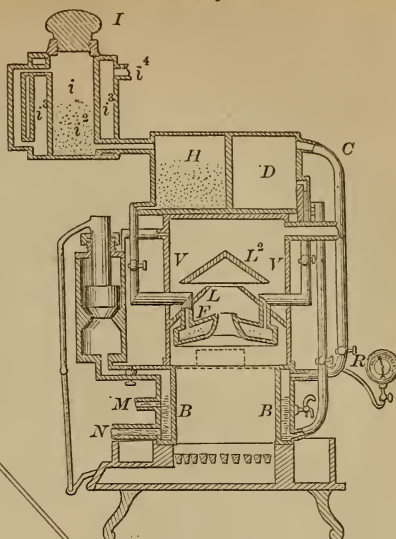


49497—C. R. Brinckerhoff—*Harvesting Machine.*49500—R. Carter, Jr.—*Folding Table.*49501—H. Chandler—*Harvesting Machine.*49499—J. Caldwell, Sr.—*Vegetable Cutter.*49498—J. M. Butters—*Clothes Dryer.*49503—J. Chilcott—*Oven.*

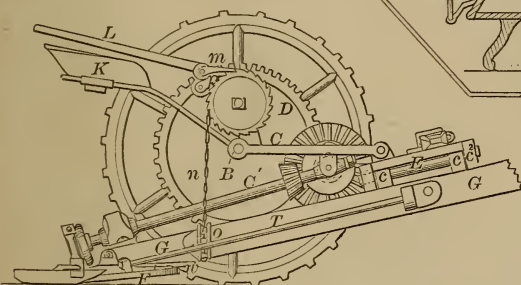
49504—J. Chilcott—Heater.



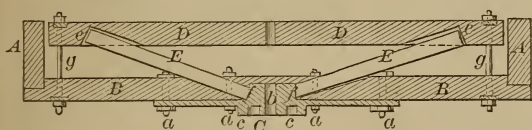
49505—O. Collins—Making Gas.



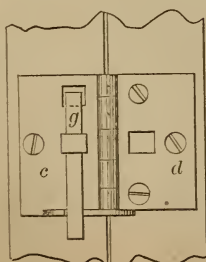
49506—J. S. Davis—Harvesting Machine.



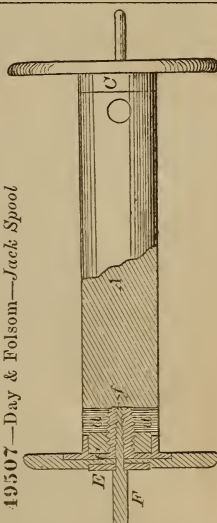
49510—D. H. Dotterer—Car Truck.



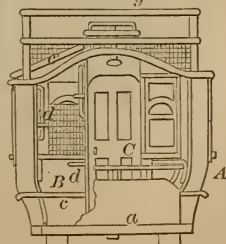
49511—S. R. Dummer—Hinge.



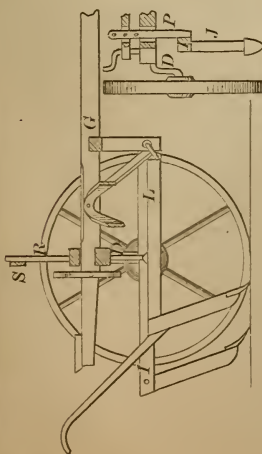
49507—Day & Folsom—Jack Spool

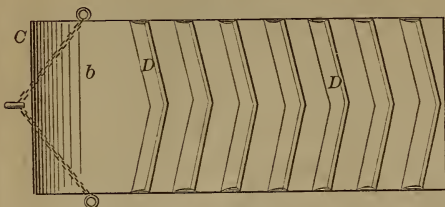
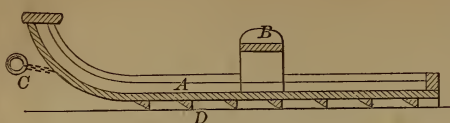
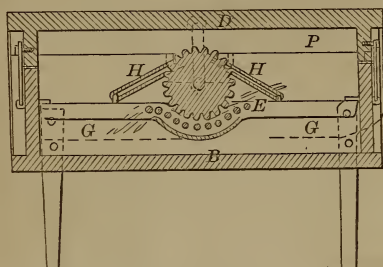
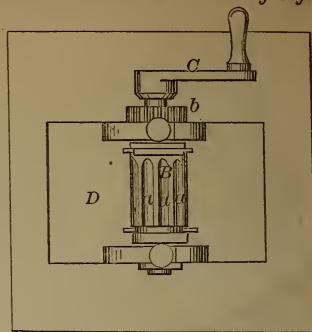
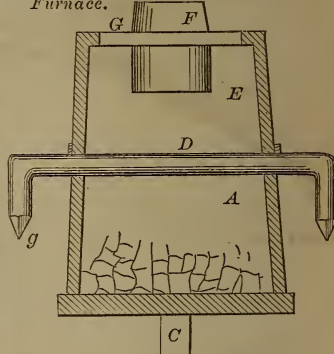
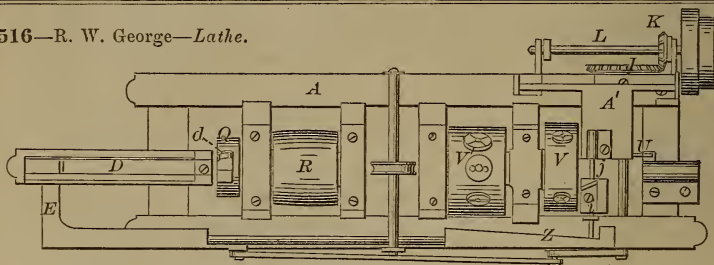
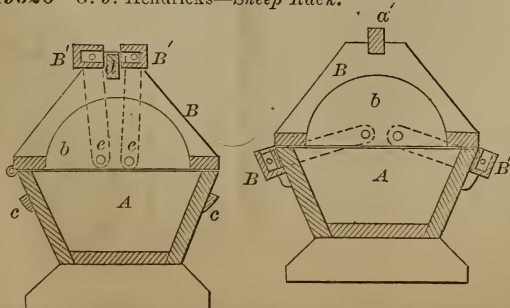
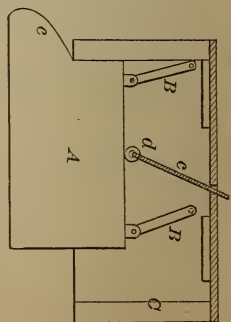


49508—Derby & West—Railway Car.

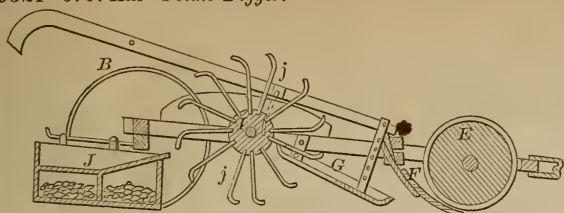


49512—Ekstrand & Cassel—Cultivator.

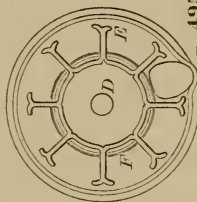
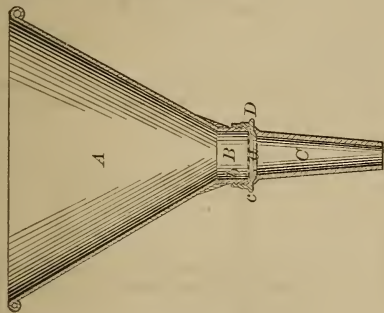


49513—W. Elwell—*Earth Pulverizer*.49519—J. T. Hagerty—*Washing Machine Wringer*.49515—H. Geilhausen—*Candy Cigar*.49517—E. B. Gibbud—*Tinman's Furnace*.49516—R. W. George—*Lathe*.49520—G. J. Hendricks—*Sheep Rack*.49514—G. M. Fay—*Centre Board*.

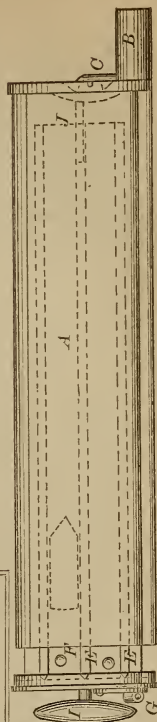
49521—J. J. Hill—Potato Digger.



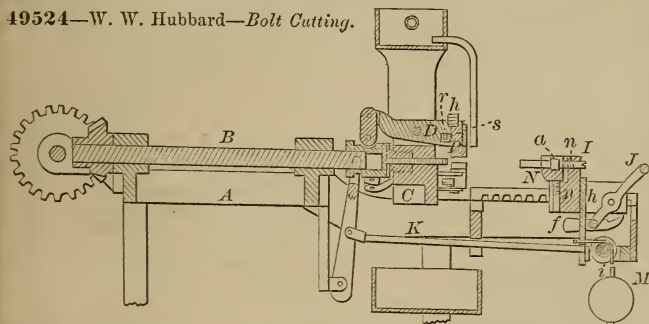
49522—J. Q. Hill—Funnel.



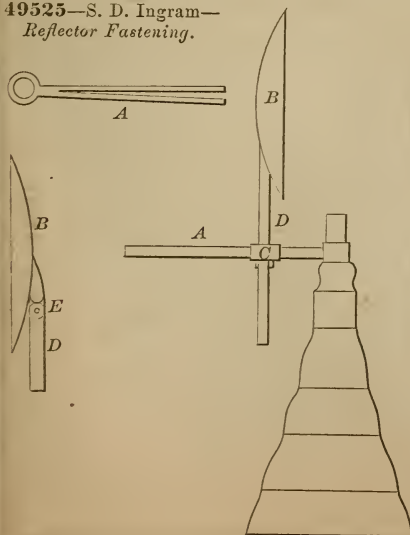
49523—C. Howlett—Cartridge Box.



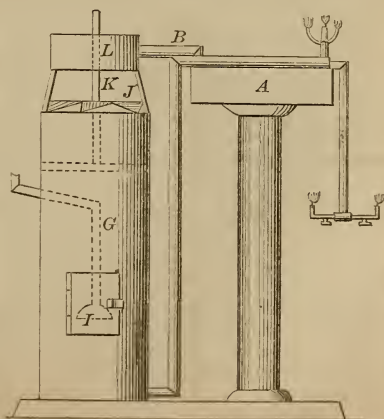
49524—W. W. Hubbard—Bolt Cutting.



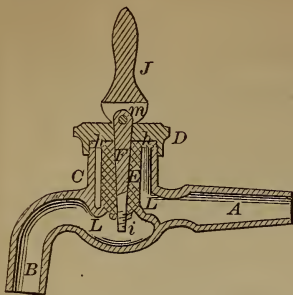
49525—S. D. Ingram—Reflector Fastening.



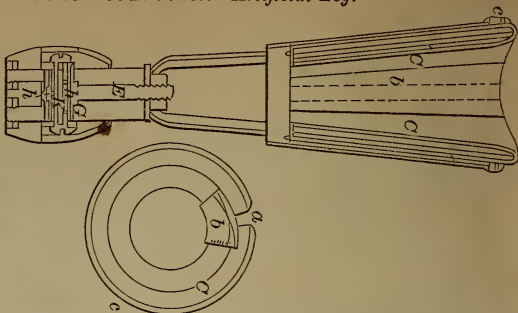
49526—J. H. Irwin—Carburetted Air.



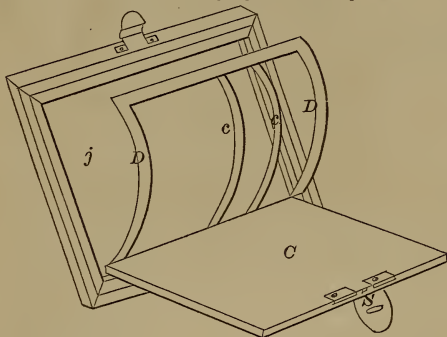
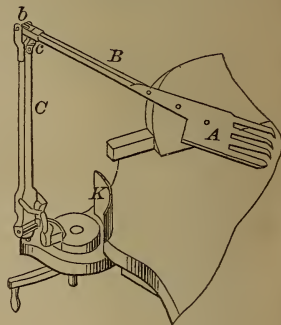
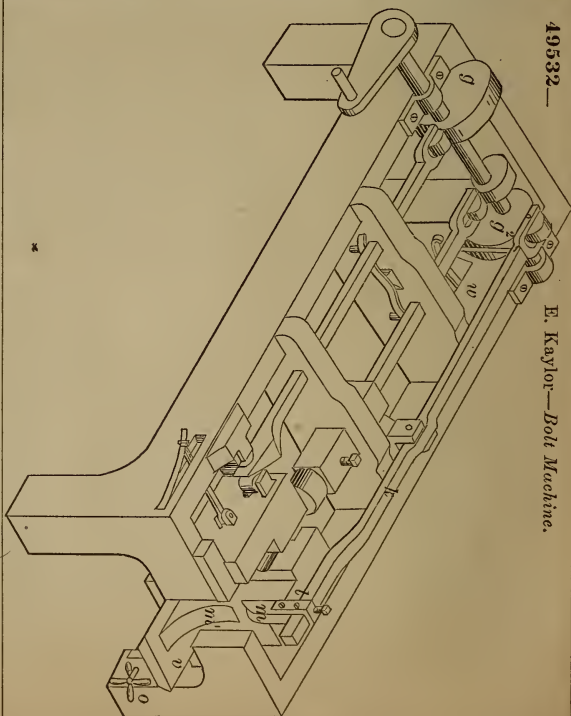
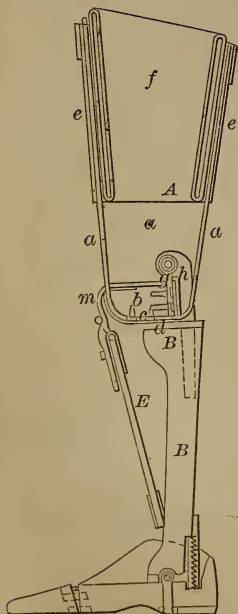
49527—N. Jenkins—Faucet.



49529—G. B. Jewett—Artificial Leg.



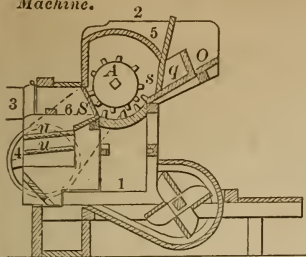
49531—S. K. Jones—Photographic Printing Frame.

49530—J. H. Jones—Harvester
Rake.49528—G. B. Jewett—
Artificial Leg.

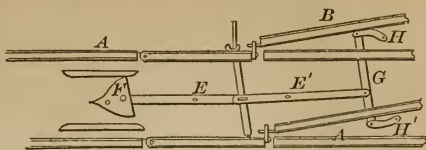
49532—

E. Kaylor—Bolt Machine.

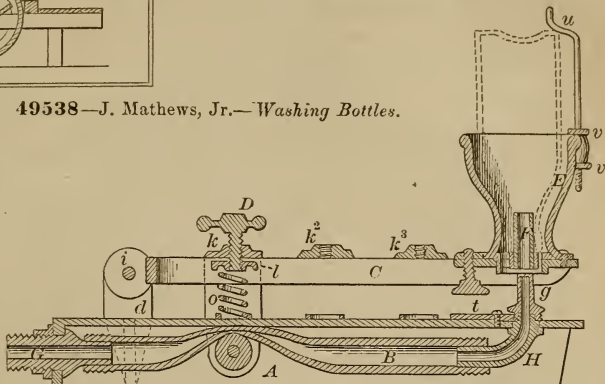
49533—B. H. Kepner—*Threshing Machine.*



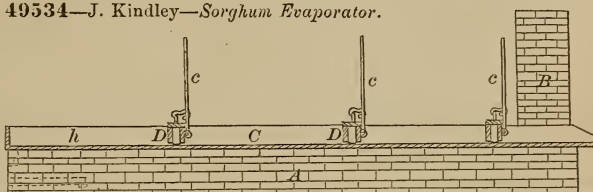
49536—E. B. Lake—*Railroad Switch.*



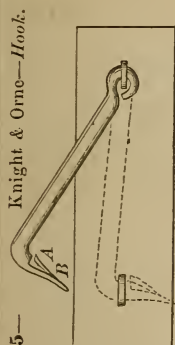
49538—J. Mathews, Jr.—*Washing Bottles.*



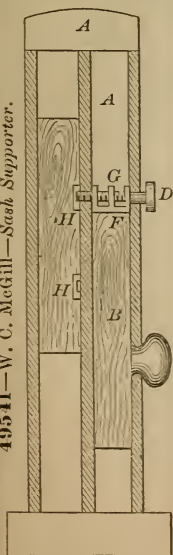
49534—J. Kindley—*Sorghum Evaporator.*



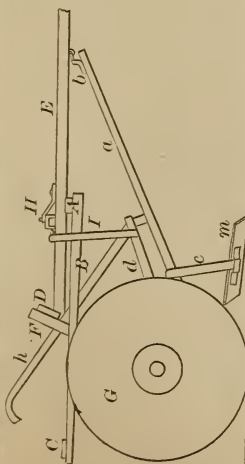
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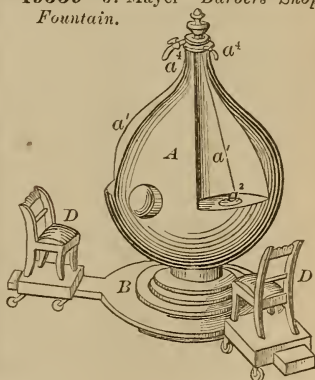
49541—W. C. McGill—*Sash Supporter.*



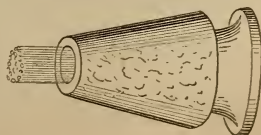
49540—E. McEwen—*Cultivator.*



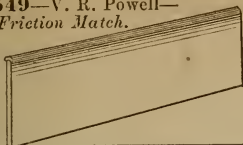
49539—J. Mayer—*Barbers' Shop Fountain.*



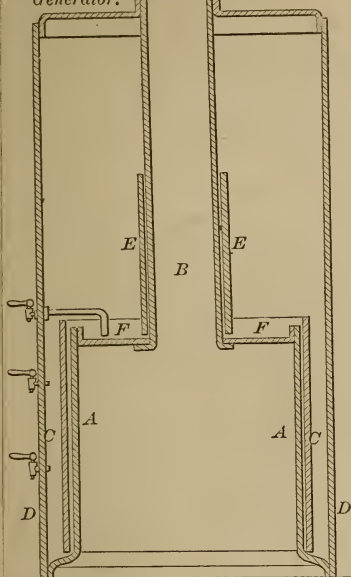
49542—J. H. Merrill—*Match Igniter.*



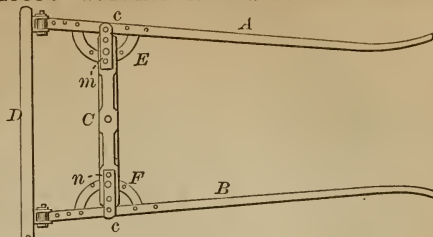
49549—V. R. Powell—*Friction Match.*



49556—H. C. Sergeant—*Steam Generator.*

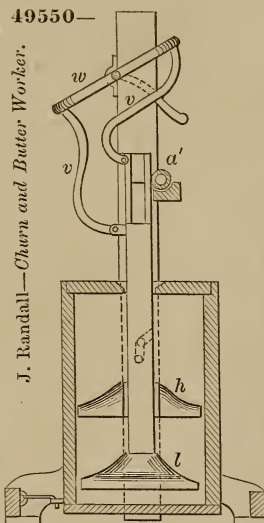


49552—W. P. Robinson—*Thills.*

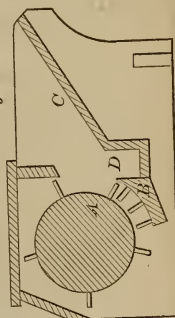


49550—

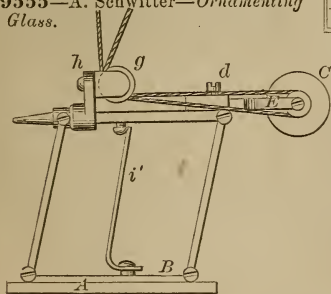
J. Randall—*Churn and Butter Worker.*



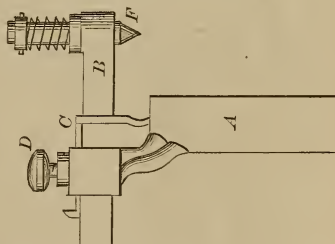
49551—H. Read—*Threshing Machine.*



49555—A. Schwitter—*Ornamenting Glass.*

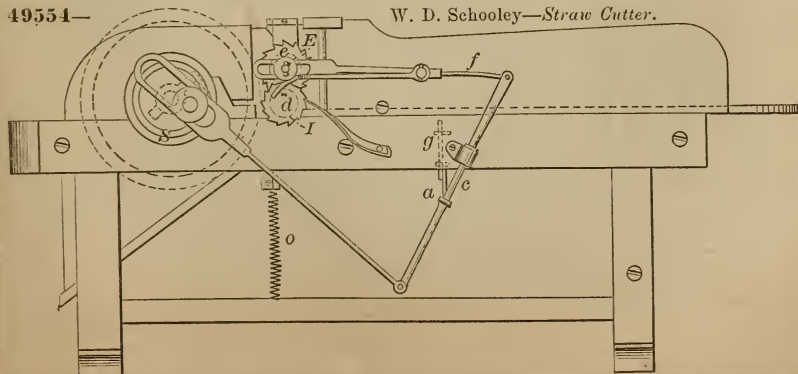


49553—Safford & Sawyer—*Centre Punch.*

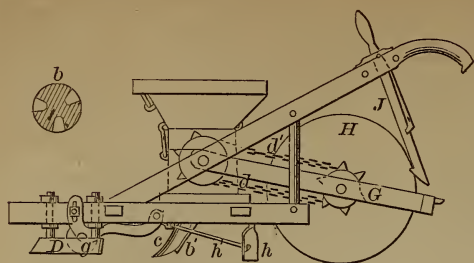


49554—

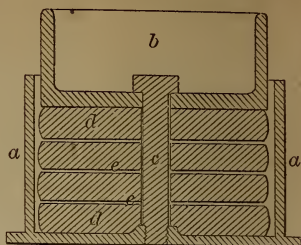
W. D. Schooley—*Straw Cutter.*



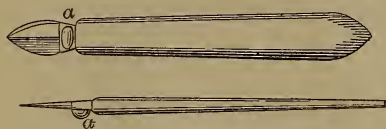
49557—J. Shafer—Seeding Machine.



49560—T. Shaw—Car Spring.



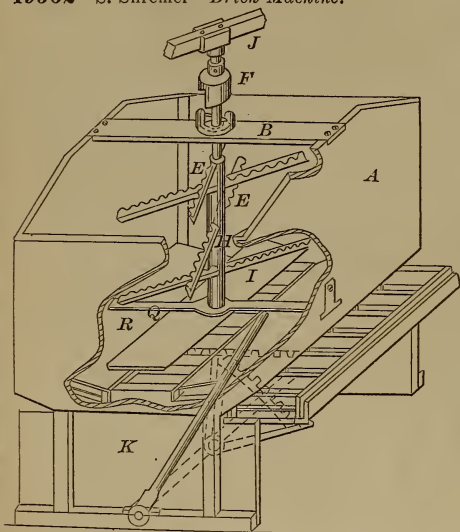
49559—A. G. Shaver—Eraser and Burnisher.



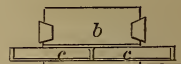
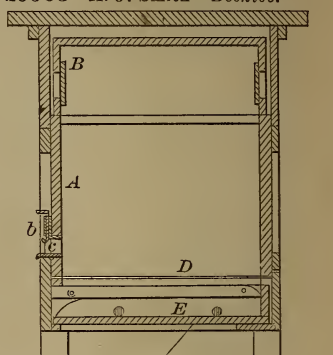
49558—A. G. Shaver—Eraser and Burnisher.



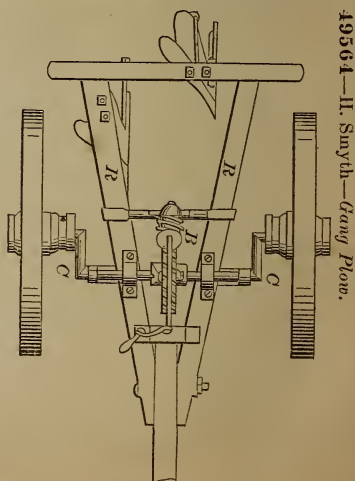
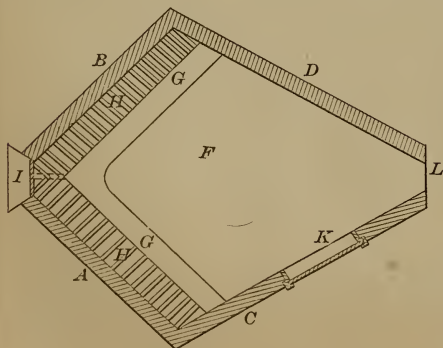
49562—S. Shrefler—Brick Machine.



49563—A. J. Smith—Beehive.

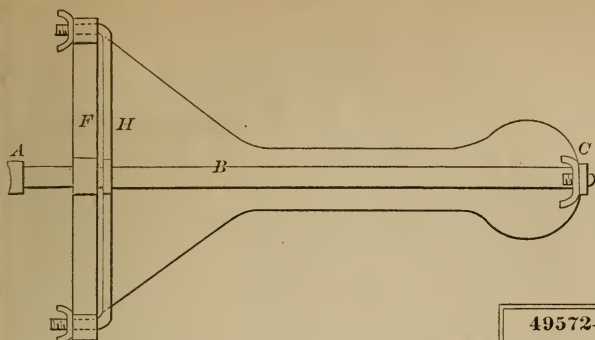


49565—N. S. Snedeker—Puddling Furnace.

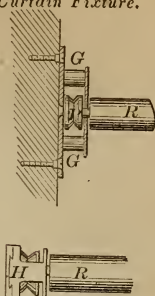


49564—H. Smyth—Gang Plow.

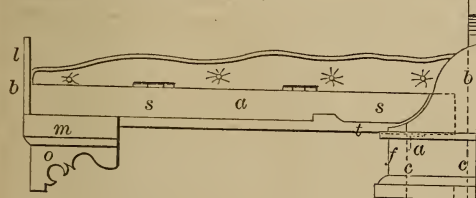
49566—W. W. Spaulding—Mop Head.



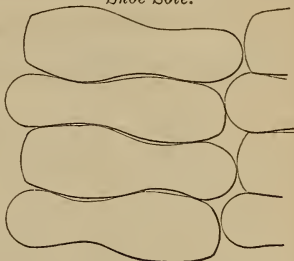
49571—H. H. Trenor—Curtain Ficture.



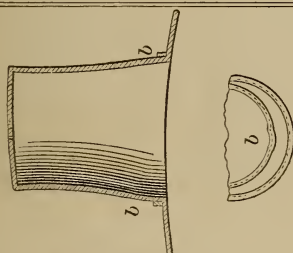
49568—A. Stark—Bedstead.



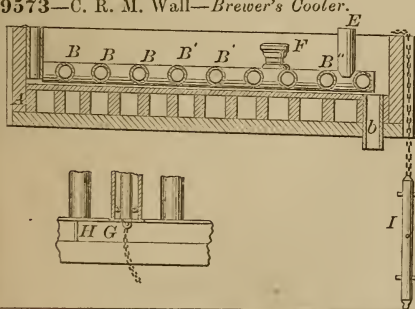
49572—J. H. Walker—Boot and Shoe Sole.



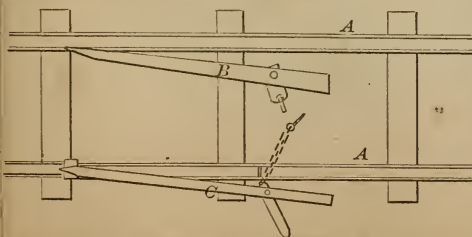
49570—W. H. Towers—Hat.



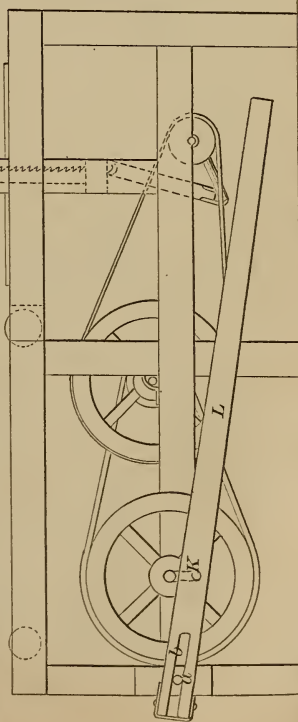
49573—C. R. M. Wall—Brewer's Cooler.

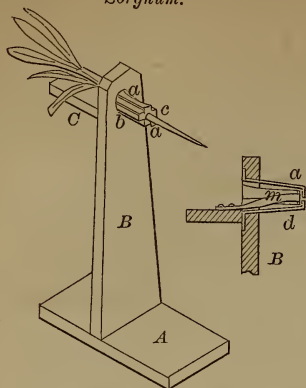
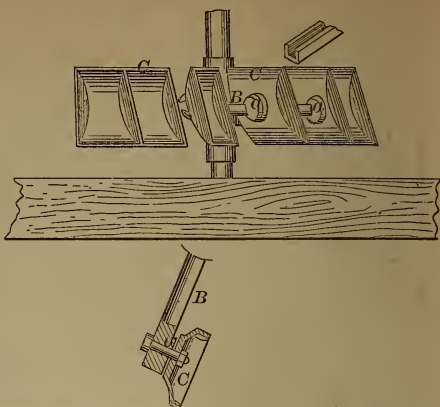
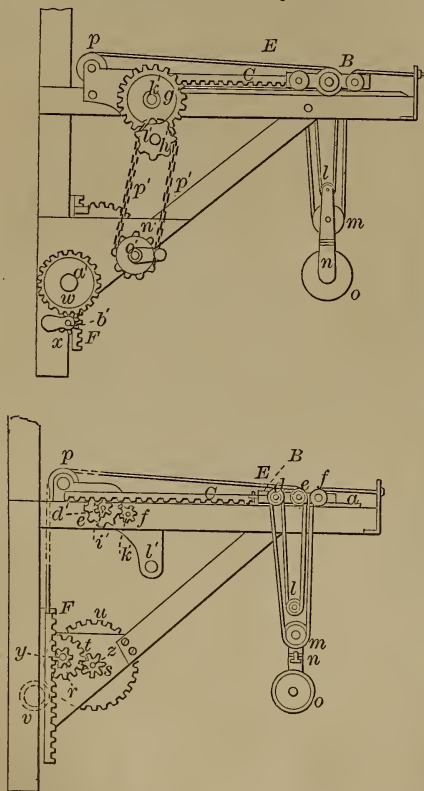
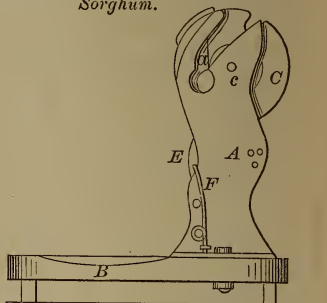
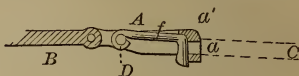
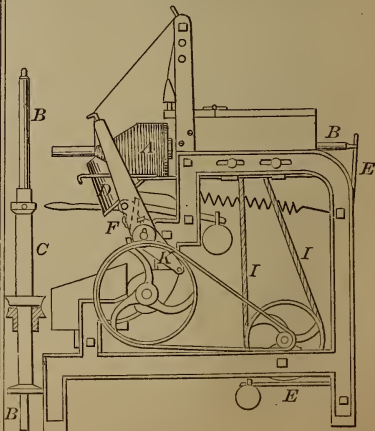
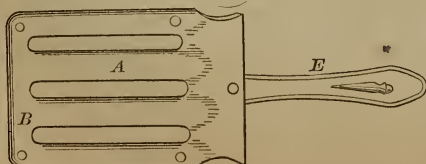


49574—D. Warren—Railroad Switch.

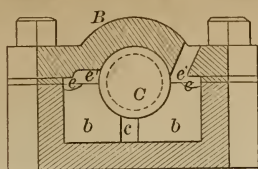


49575—A. West—Sawing.

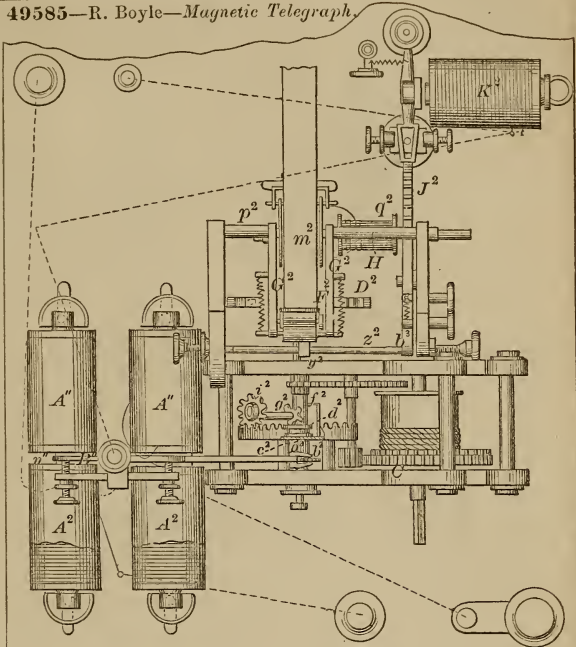


49576—R. C. Wilcox—*Stripping Sorghum.*49578—C. D. Wright—*Water Wheel.*49579—J. T. Wright—*Elevating Crane.*49577—L. R. Witherell—*Stripping Sorghum.*49580—W. Wyckoff—*Trace Buckle.*49582—G. S. Bradford—*Winding Bobbins.*49581—G. Booth—*Gridiron.*

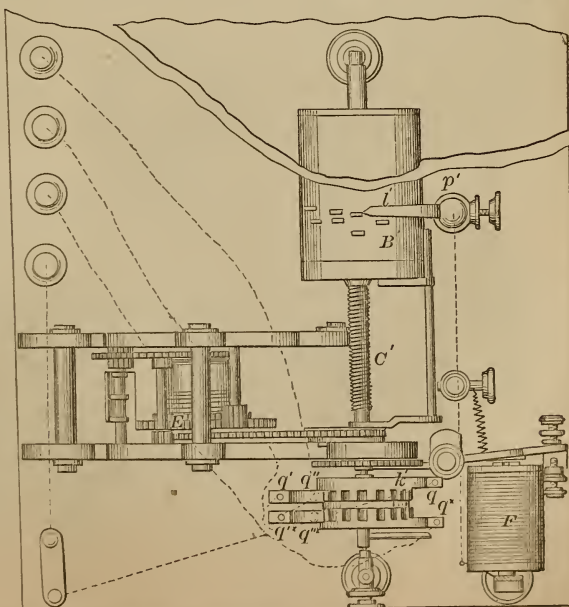
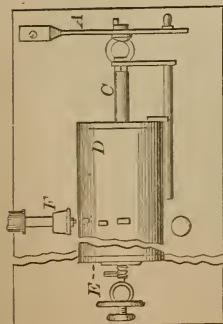
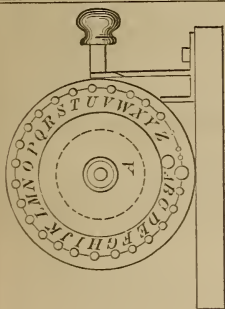
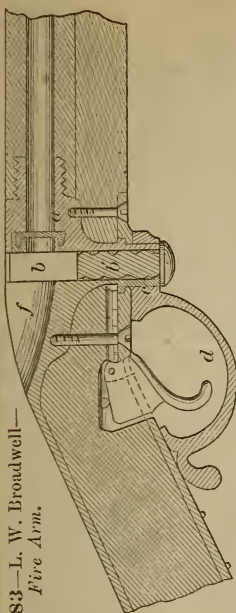
49584—W. H. Doane—Journal Box.

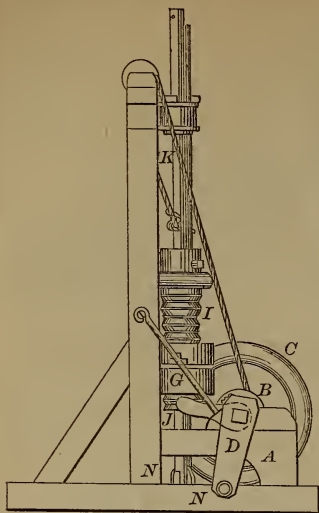
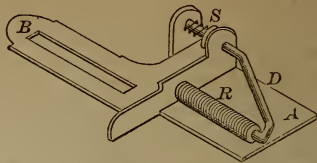
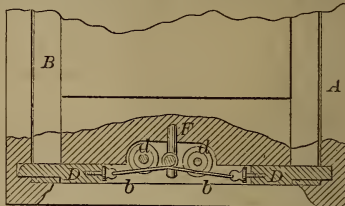
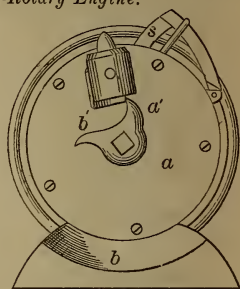
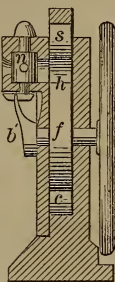
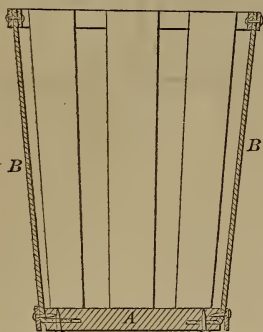
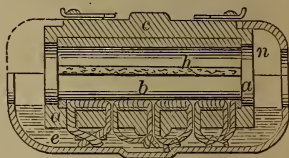
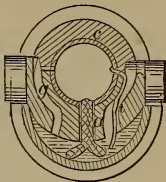
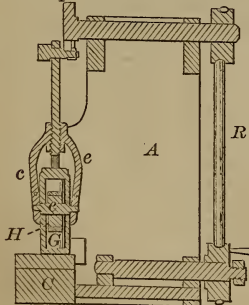
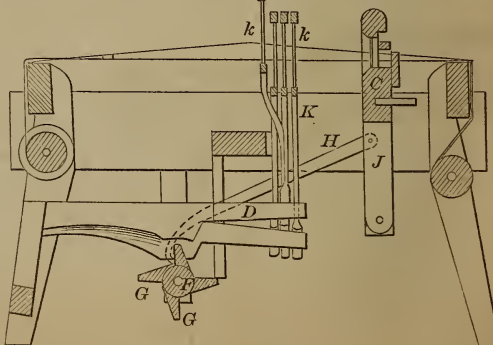
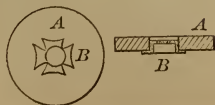


49585—R. Boyle—Magnetic Telegraph.

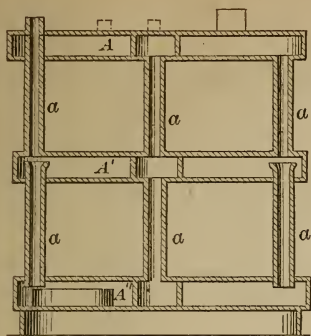


49583—L. W. Broadwell—
Fire Arm.

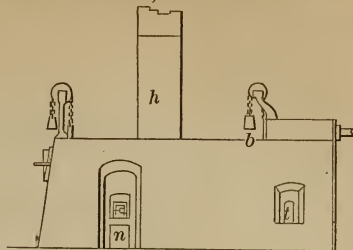


49587—J. Hafner—*Well Drill.*49588—G. W. Harrington—*Sewing Machine.*49592—S. M. Richards—*Sash Fastener.*49594—J. T. Warren—*Rotary Engine.*49590—E. A. Jeffery—*Fruit Basket.*49591—Rice & Millen—*Journal Box.*49593—H. Shattuck—*Atmospheric Hammer.*49589—J. W. Hayse—*Hand Loom.*49595—W. B. White—*Button.*

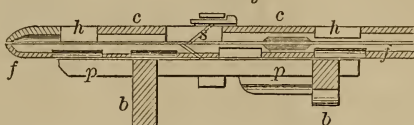
49596—M. J. A. Mills—*Carburetted Air.*



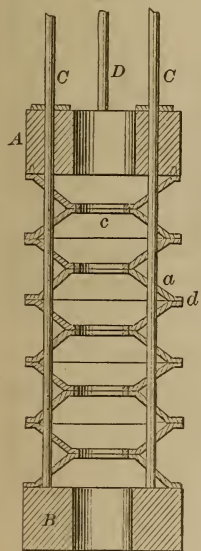
49597—T. Macfarlane—*Preparing Bleaching Powder, &c.*



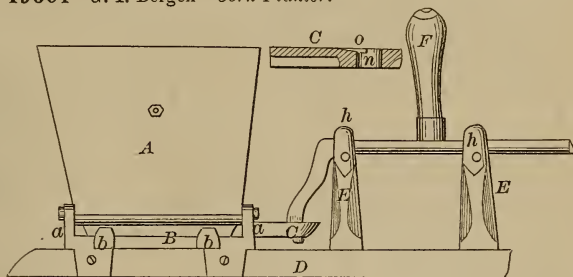
49598—G. Bedson—*Rolling Wire.*



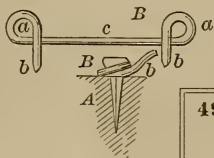
49599—P. Sicouret—*Well Tube Packing.*



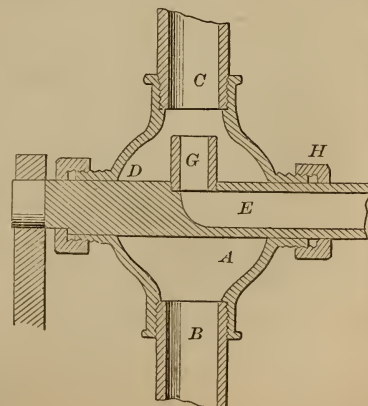
49601—G. I. Bergen—*Corn Planter.*



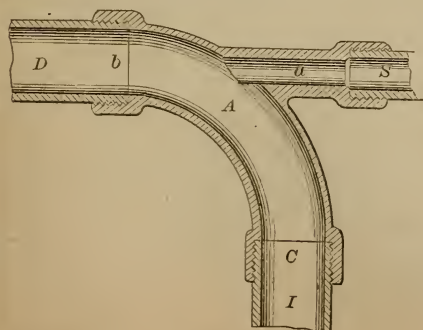
49600—Andrews & Burnham—*Carpet Fastening.*



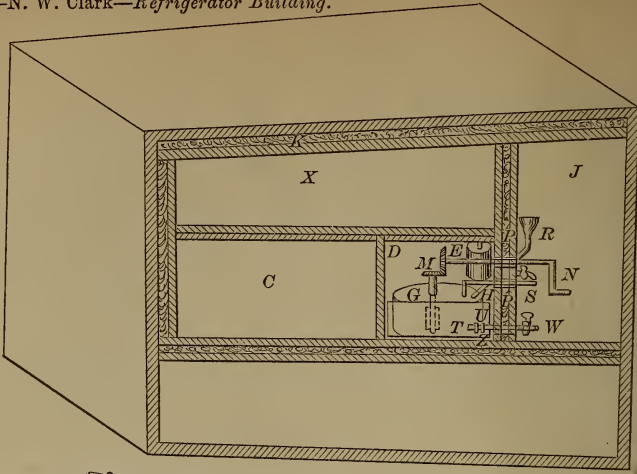
49603—N. L. Chappell—*Water Ejector.*



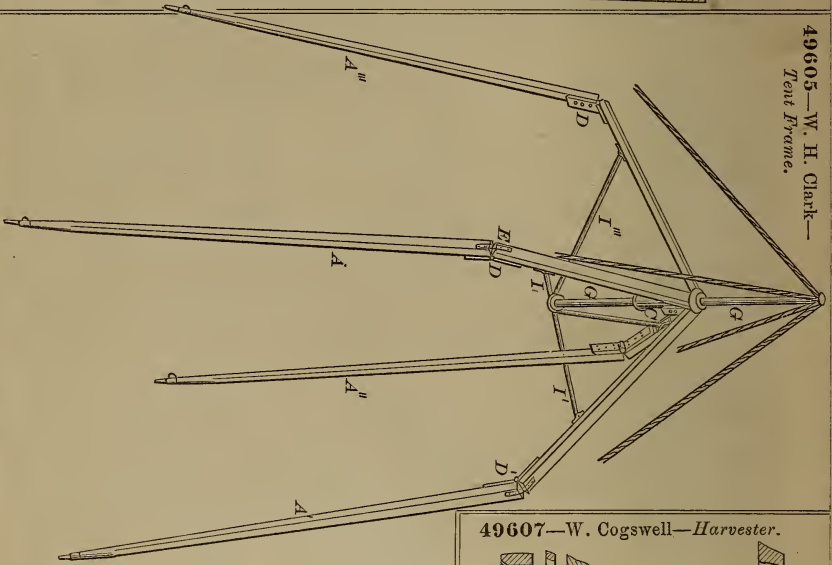
49602—A. Brear—*Liquid Ejector.*



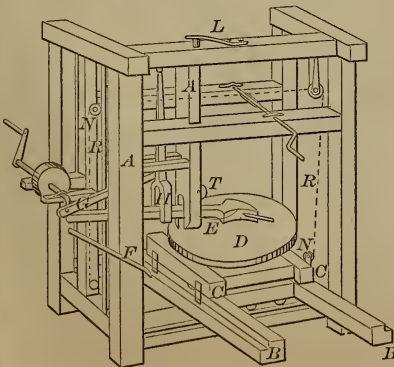
49604—N. W. Clark—*Refrigerator Building.*



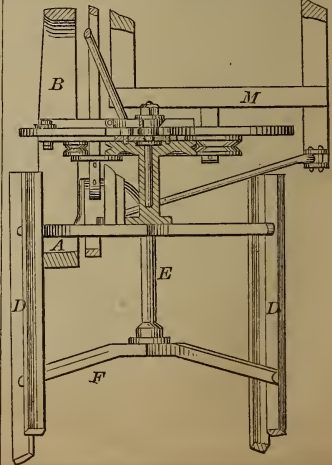
49605—W. H. Clark—*Tent Frame.*



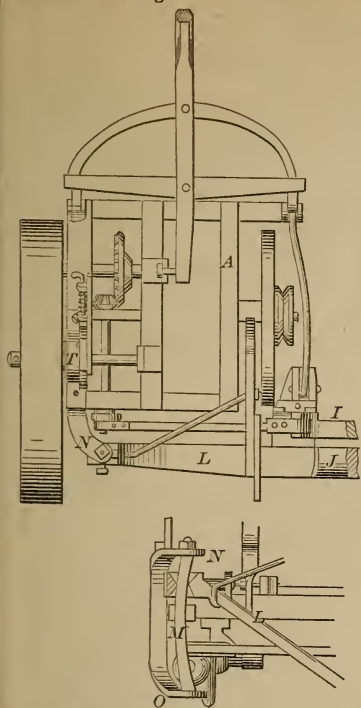
49606—W. M. Clarke—*Scouring Leather.*



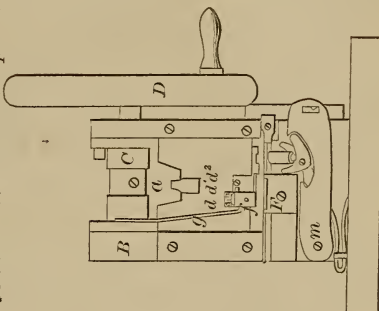
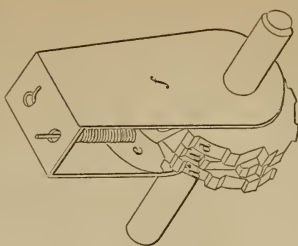
49607—W. Cogswell—*Harvester.*



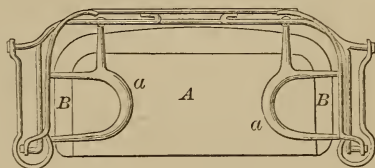
49608—W. Cogswell—*Harvester.*



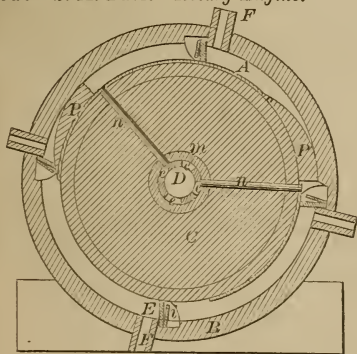
49609—C. H. Dana—*Sheep's Label.*



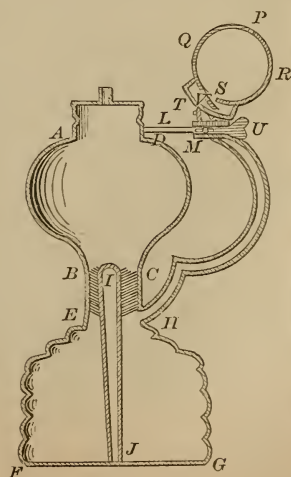
49611—Dodds & Walsh—*Carriage Top.*



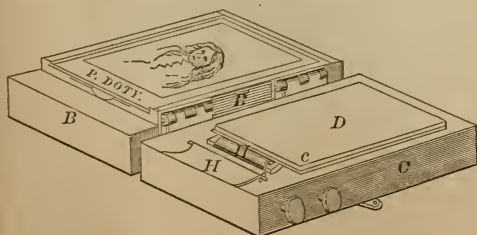
49610—S. M. Davis—*Rotary Engine.*

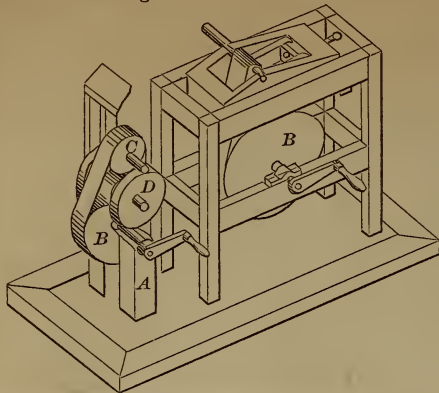
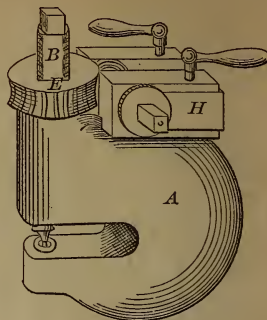
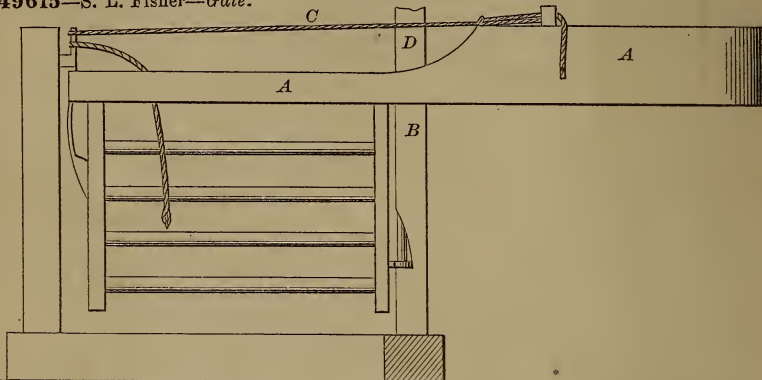
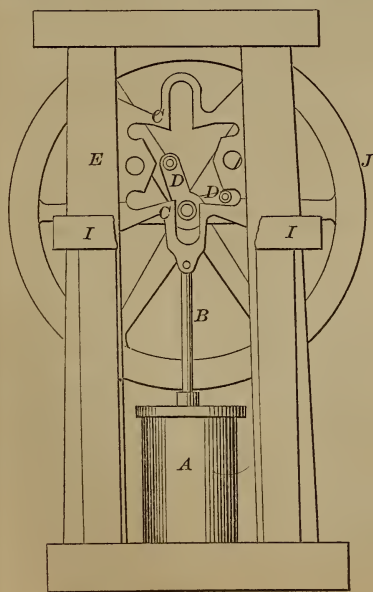
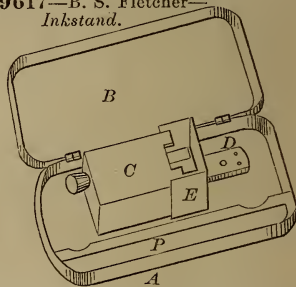
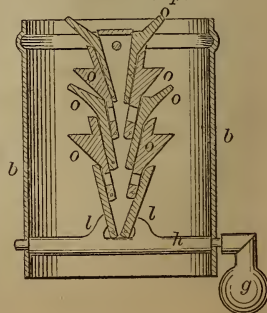


49613—J. P. Driver—*Lamp.*



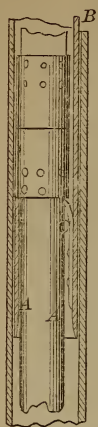
49612—G. W. Doty—*Photographic Card Printing.*



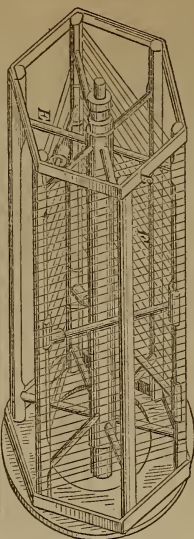
49614—D. Eldridge—*Anti-Friction Wheel.*49616—Fitzpatrick & Barker—*Punch.*49615—S. L. Fisher—*Gate.*49618—J. H. Foss—*Converting Motion.*49617—B. S. Fletcher—*Inkstand.*49619—J. Fowler—*Damper.*

49628—

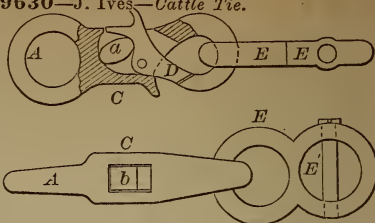
W. R. Hinsdale—Retracting Drill from Well.



49629—J. E. Huston—Flour Bolt.



49630—J. Ives—Cattle Tie.



49631—

H. Keeney—Curd Cutter.

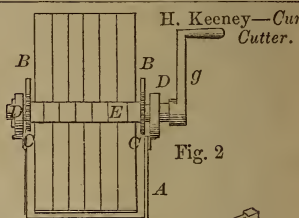


Fig. 2

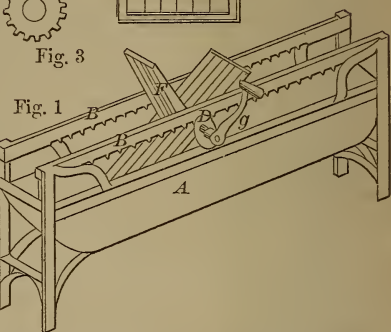
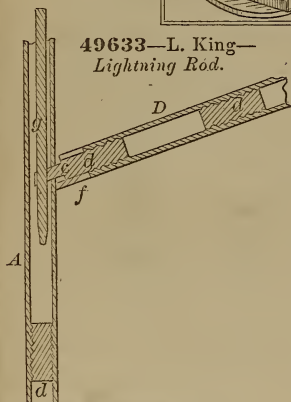
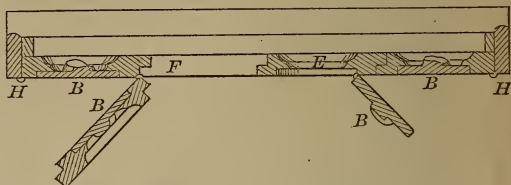
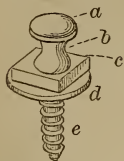


Fig. 1

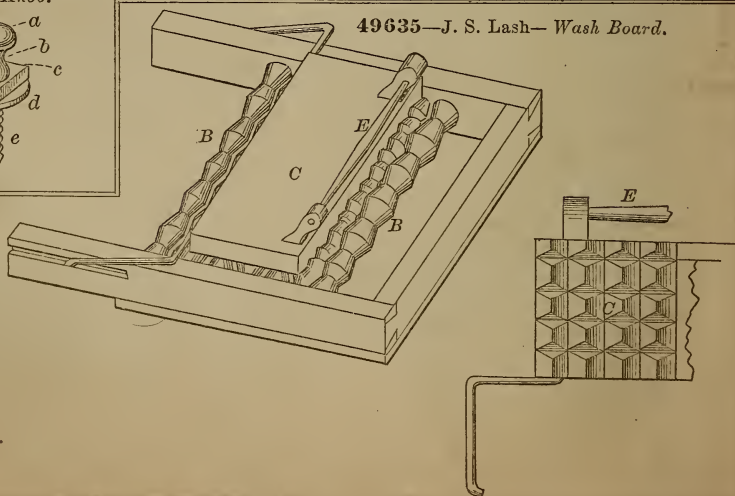
Fig. 3

49633—L. King—
Lightning Rod.

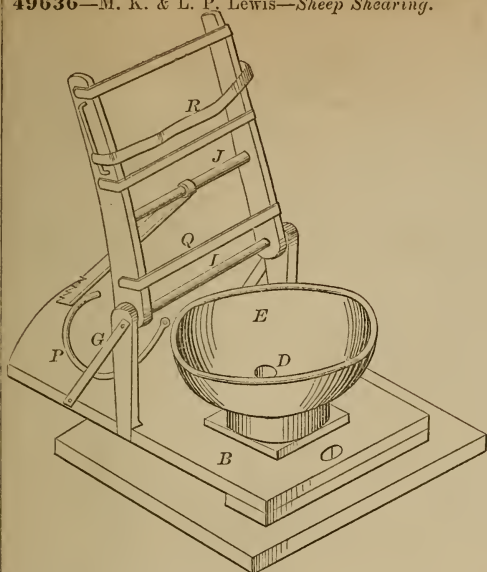
49632—W. H. Kennard, Jr.—Window Shutter.

49634—C. Z. Kroh—
Curtain Knob.

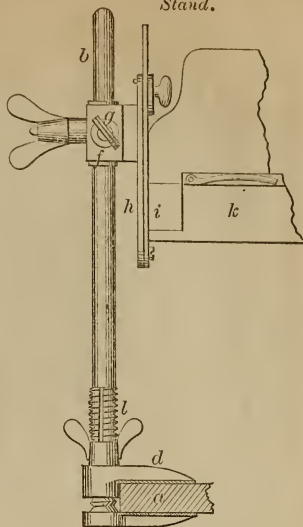
49635—J. S. Lash—Wash Board.



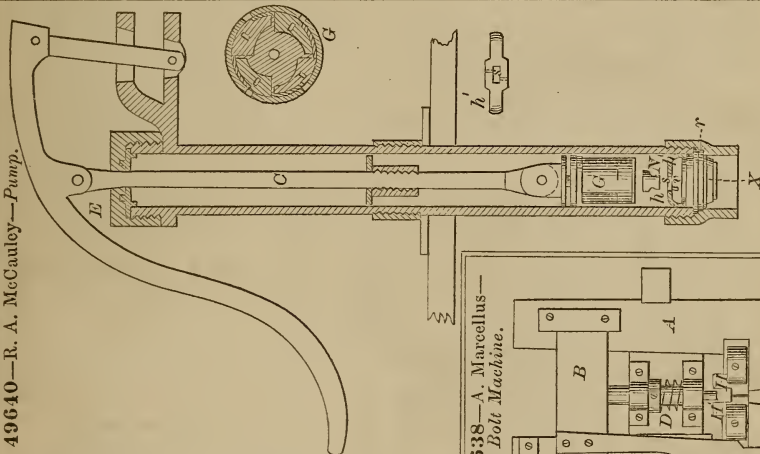
49636—M. K. & L. P. Lewis—*Sheep Shearing.*



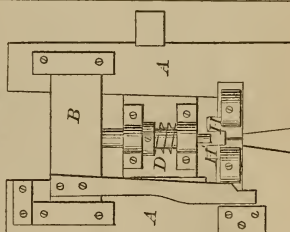
49639—W. W. Marston—*Book Stand.*



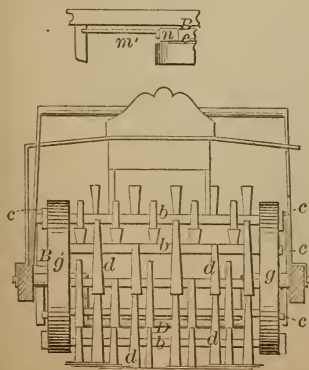
49640—R. A. McCauley—*Pump.*



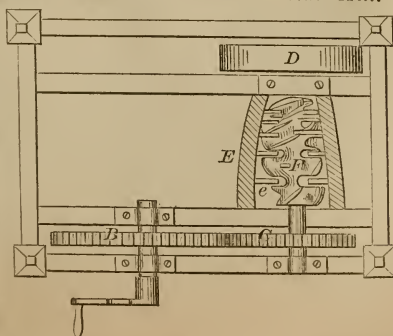
49638—A. Marcellus—*Bolt Machine.*

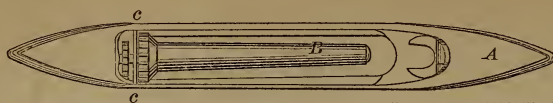


49642—W. R. Mears—*Spading Machine.*



49641—McDowell & Baechtel—*Cider Mill.*



49643—S. C. Mendenhall—*Securing Bobbin in Shuttle.*

49644—

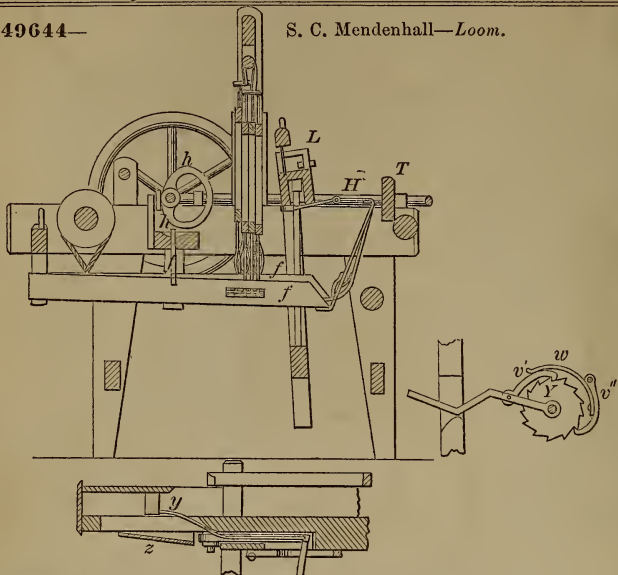
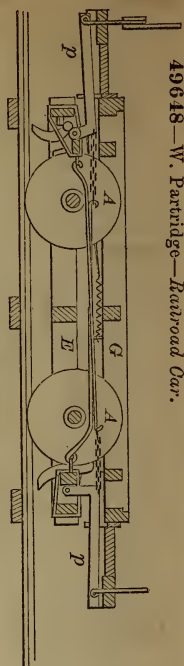
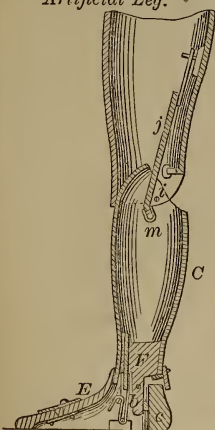
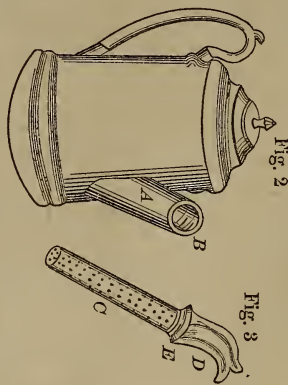
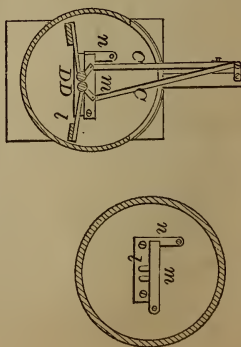
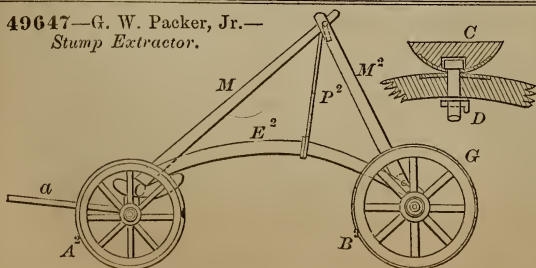
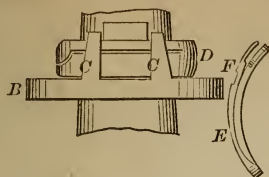
S. C. Mendenhall—*Loom.*49648—W. Partridge—*Railroad Car.*49645—A. Mennel—*Artificial Leg.*49650—W. Polyblank—*Strainer.*

Fig. 2

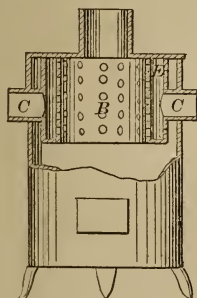
Fig. 3

49649—A. Patterson—*Hoe.*49646—A. A. Newman—*Churn.*49647—G. W. Packer, Jr.—*Stump Extractor.*

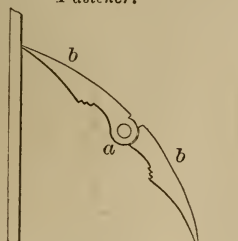
49651—C. M. Risley—*Linch Pin.*



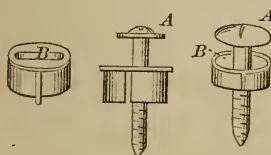
49652—E. C. Robinson—*Heater.*



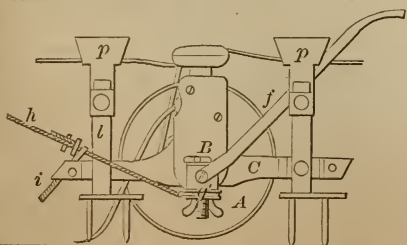
49656—G. W. Sayre—*Door Fastener.*



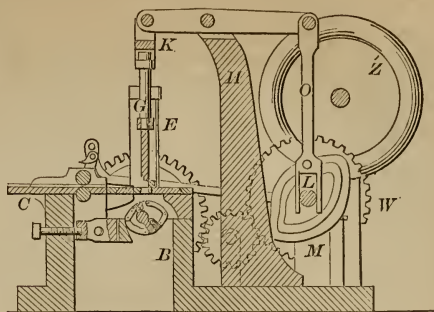
49660—W. Shaw—*Window Stop.*



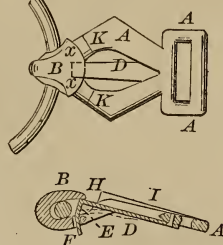
49661—P. Sinnhold—*Planter and Cultivator.*



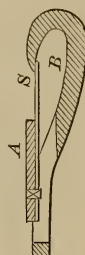
49653—J. Russell—*Nail Machine.*



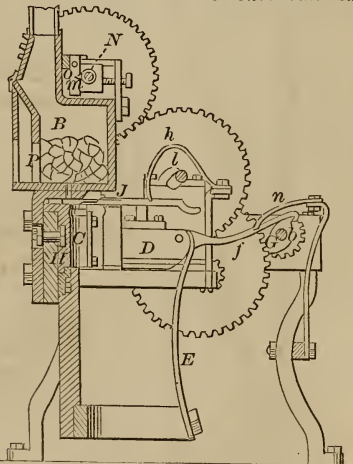
49654—C. W. Saladee—*Snap Hook.*



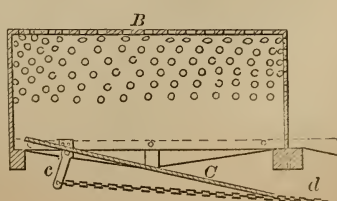
49655—C. W. Saladee—*Snap Hook.*



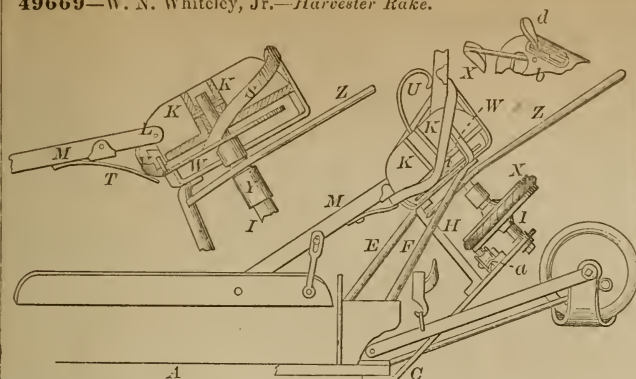
49657—H. F. Sehnders—*Horse Shoe Nail Machine.*



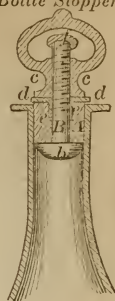
49662—P. Smith—*Boiler Furnace.*



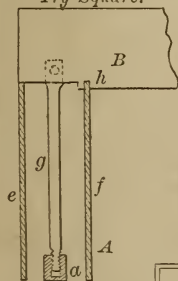
49669—W. N. Whiteley, Jr.—*Harvester Rake.*



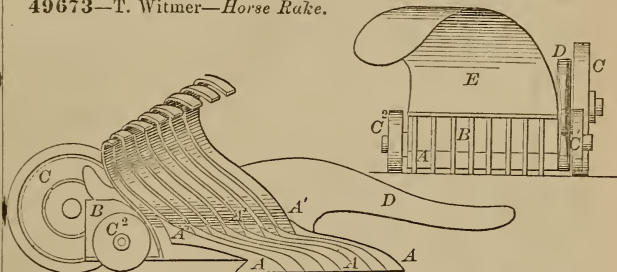
49671—
G. R. Willmot—*Bottle Stopper.*



49670—J. Williams—*Try Square.*



49673—T. Witmer—*Horse Rake.*

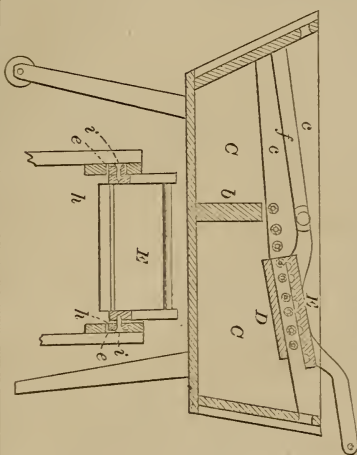


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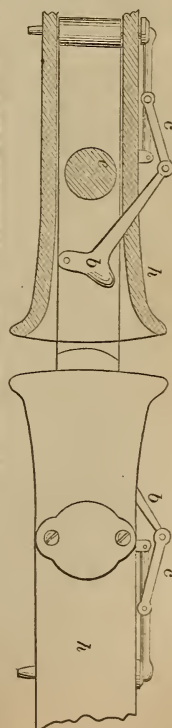
E. S. Boynton—*Securing Buttons to Cards.*



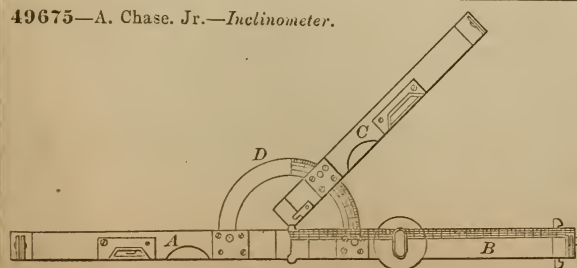
49672—J. B. Winchell—*Washing Machine.*



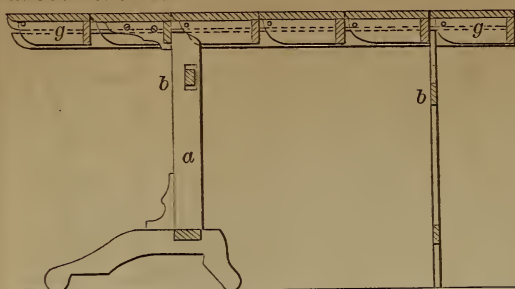
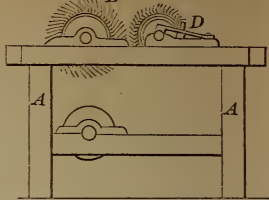
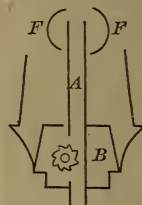
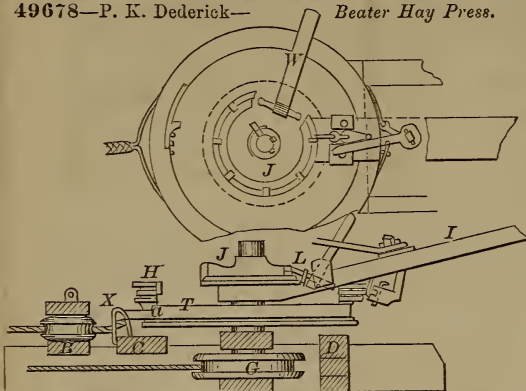
49676—J. G. W. Coolidge—*Car Coupling.*



49675—A. Chase, Jr.—*Inclinometer.*

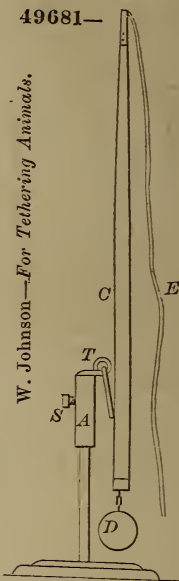


49677—C. Cuttica—Table.

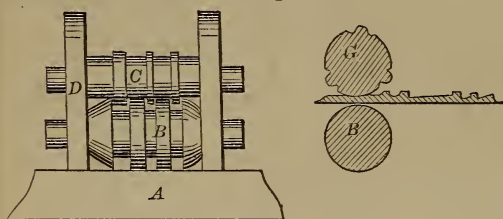
49679—A. A. Hawley—
Cleaning Carding Cylinders.49680—A. B. Hendryx—
Kerosene Burner.49678—P. K. Dederick—
Beater Hay Press.

49681—

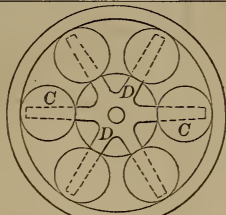
W. Johnson—For Tethering Animals.



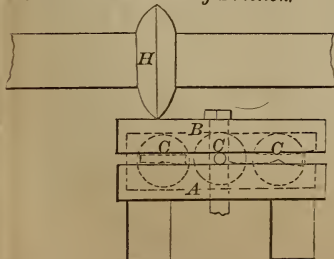
49683—W. D. Rinehart—Strap Joint.



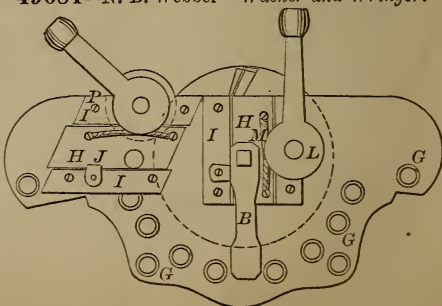
49685—



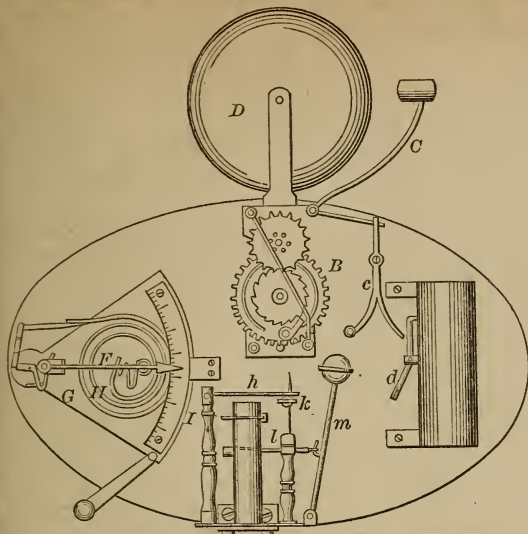
C. Badin—Diminishing Friction.



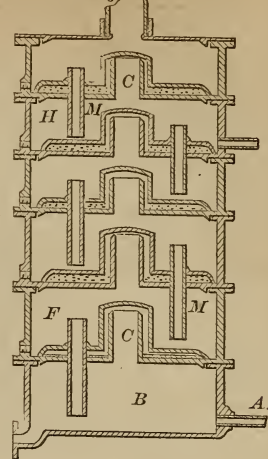
49684—N. B. Webber—Washer and Wringer.



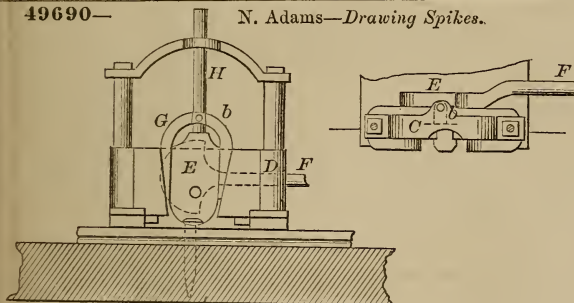
49686—C. Dion—*Fire Alarm.*



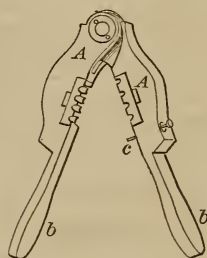
49689—J. I. Vaughn—*Distilling Petroleum.*



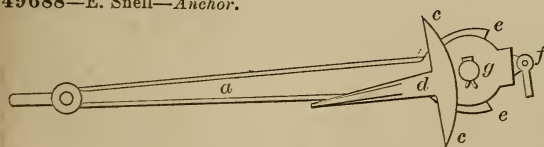
49690—N. Adams—*Drawing Spikes.*



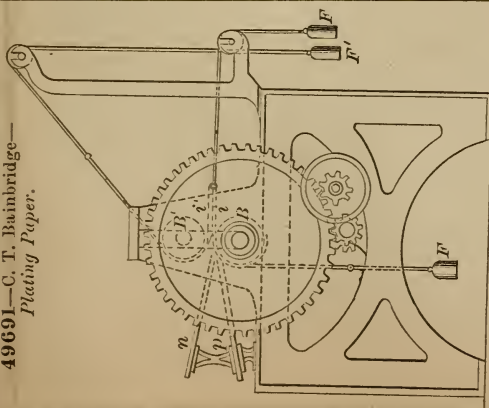
49687—J. Koberle—*Die Stock.*



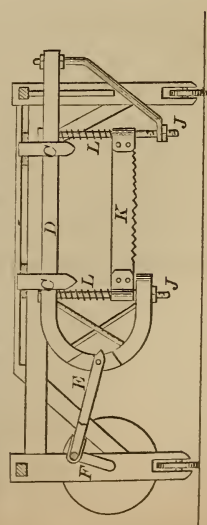
49688—E. Snell—*Anchor.*



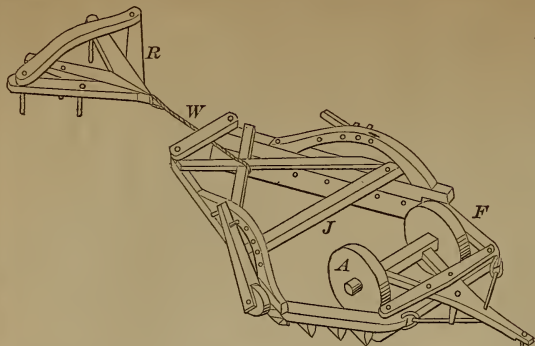
49691—C. T. Bainbridge—*Plating Paper.*



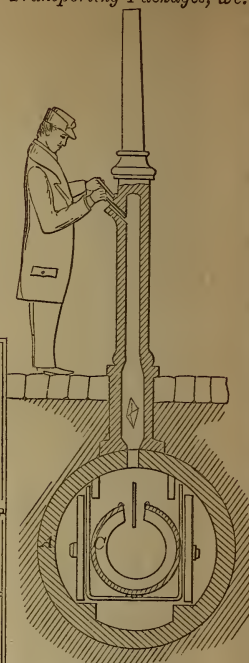
49692—N. B. Baldwin—*Sawing Machine.*



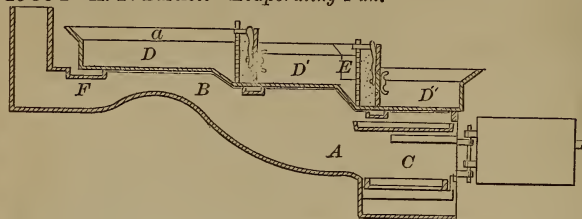
49693—T. T. Barber—Road Making Device.



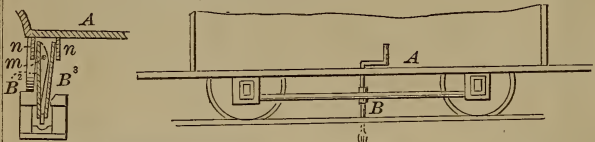
49699—A. E. Beach—Transporting Packages, &c.



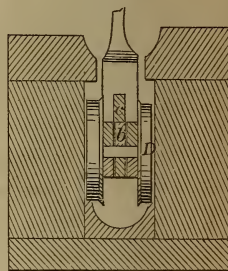
49694—H. F. Bartlett—Evaporating Pan.



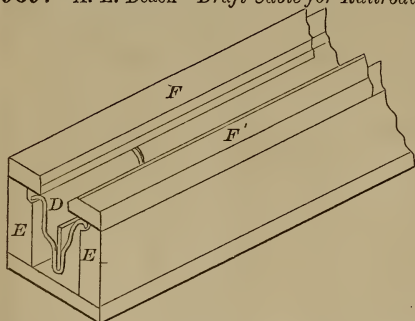
49695—A. E. Beach—Railroad Car.



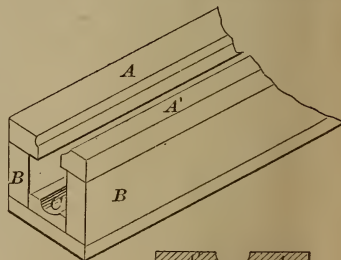
49696—A. E. Beach—Draft Cable for Railroad.



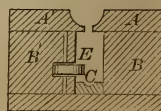
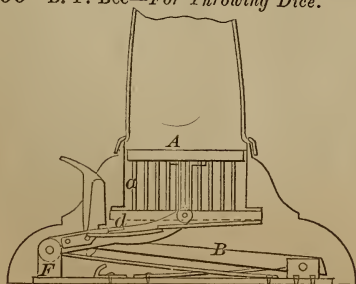
49697—A. E. Beach—Draft Cable for Railroad.



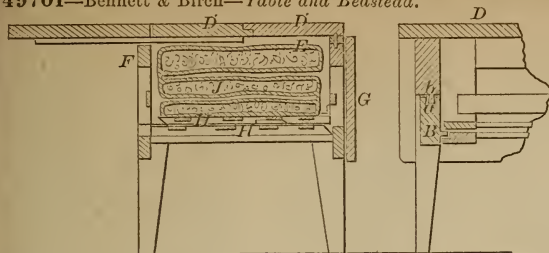
49698—A. E. Beach—Railroad Track.



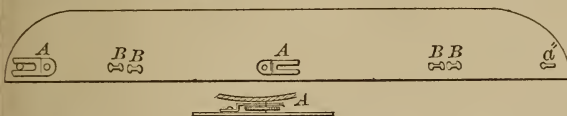
49700—B. F. Bee—For Throwing Dice.



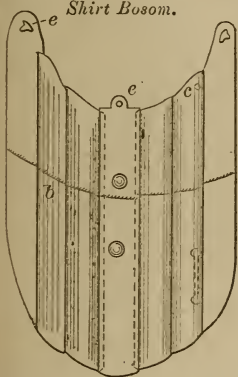
49701—Bennett & Birch—Table and Bedstead.



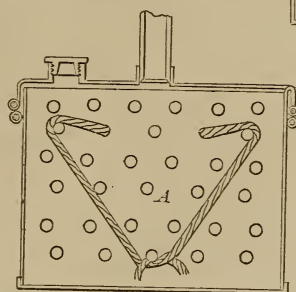
49702—L. Billon—Metallic Collar.



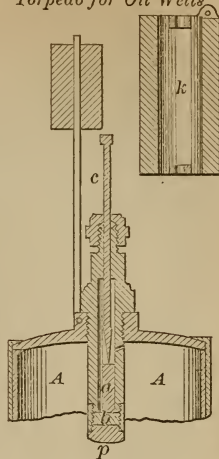
49703—L. Billon—Metallic Shirt Bosom.



49705—J. F. Boynton—Gas Burner.



49706—J. F. Boynton—Torpedo for Oil Wells.

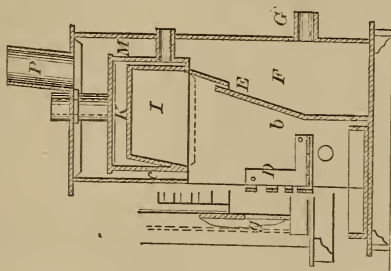


49704—

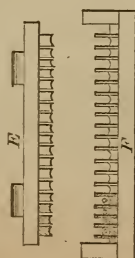
L. H. Boyman—Oil Drill.



49707—M. Bratt—Stove.



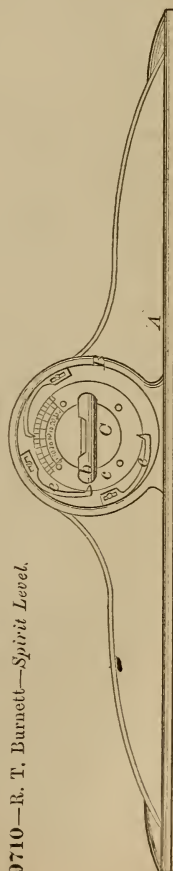
49709—G. Buckle—Cigar Machine.

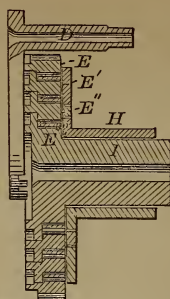
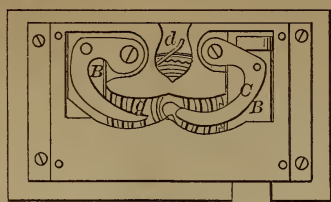
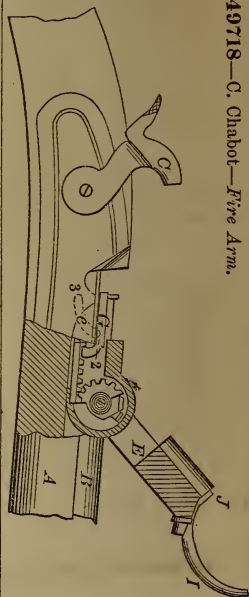


49711—A. Burnham—Milk Can.

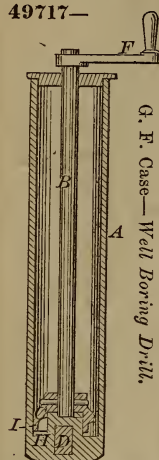
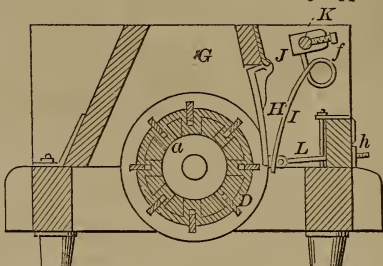
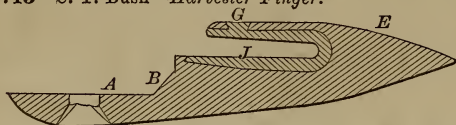
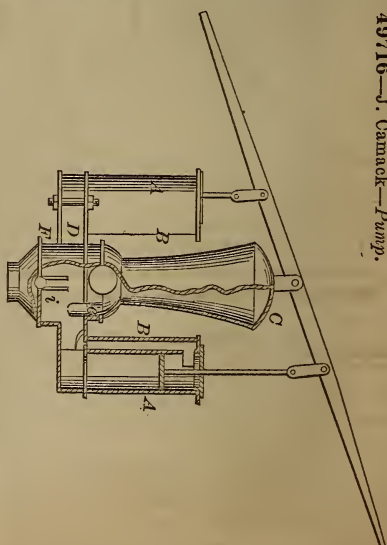
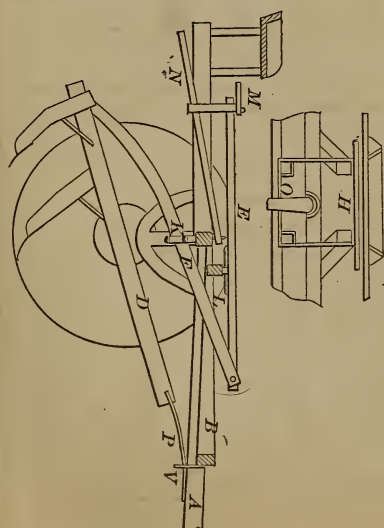


49710—R. T. Burnett—Spirit Level.

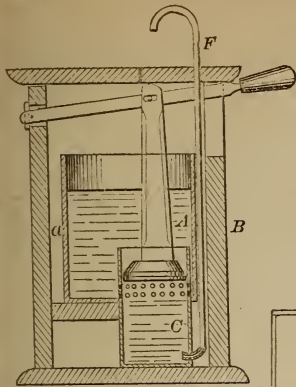


49712—W. C. Bussey—*Lock*.49718—C. Chabot—*Fire Arm*.

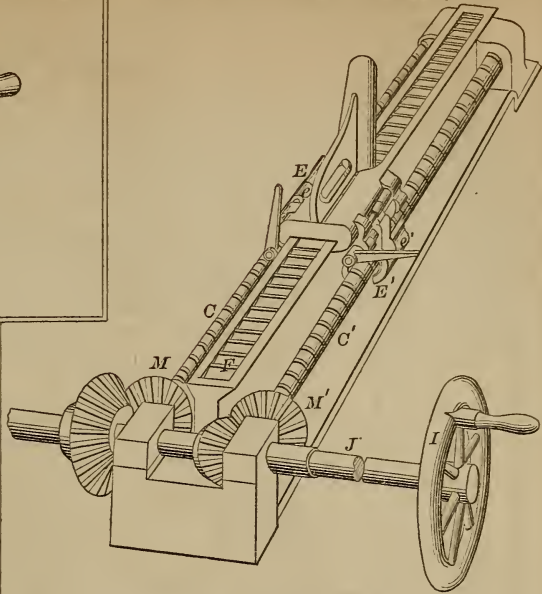
49717—

G. F. Case—*Well Boring Drill*.49714—R. Butterworth—*Grinding Apples*.49713—C. T. Bush—*Harvester Finger*.49716—J. Camack—*Pump*.49715—G. Calkins—*Cultivator*.

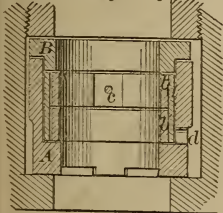
49719—F. J. Chapman—Soda Fountain.



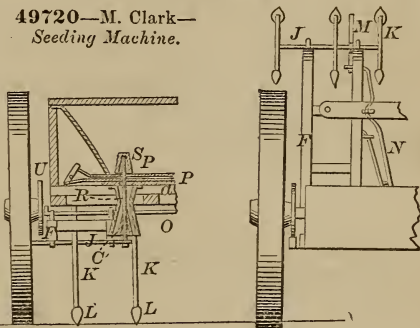
49721—G. H. Clemens—Saw Mill.



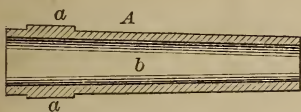
49725—W. C. Conwell—Packing Ring.



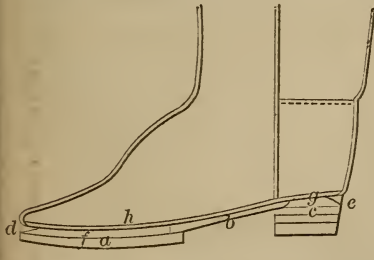
49720—M. Clark—Seeding Machine.



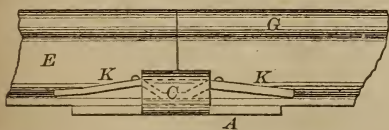
49726—C. Cook—Axle Box.



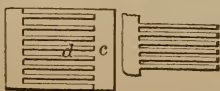
49723—E. D. Coffee—Boots.



49722—J. Cochrane—Railway Chair.

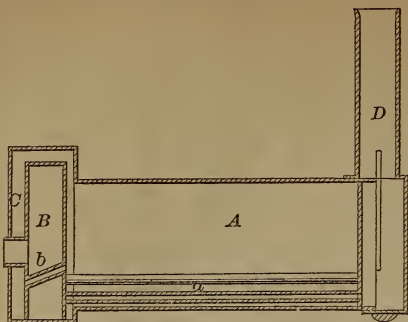
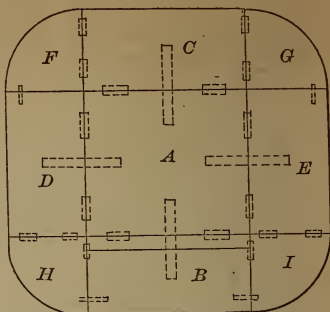
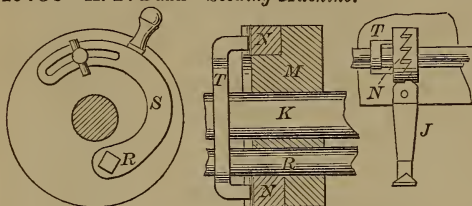
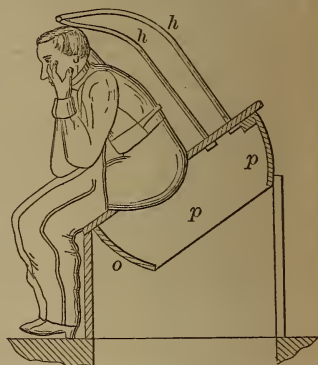
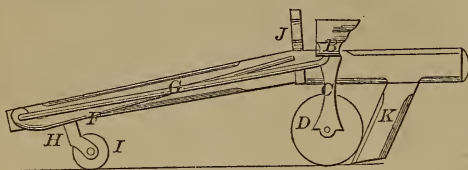
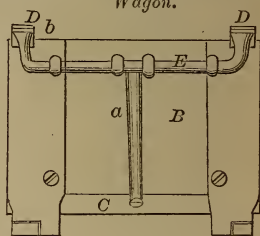
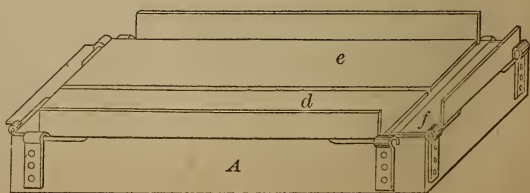
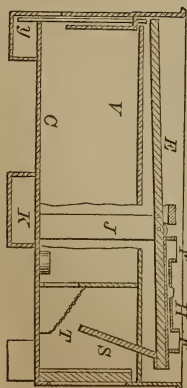


49727—M. G. Crane—Match Card.

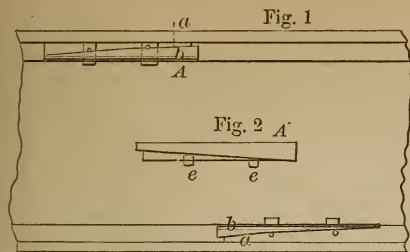


49724—C. Conradt—Ice Pitcher.

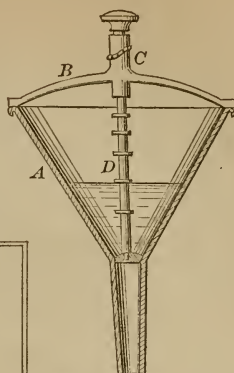


49728—C. Crawford—*Steam Generator.*49729—R. R. Crowe—*Table.*49730—H. D. Dann—*Seeding Machine.*49731—J. N. Davis—*Water Closet.*49732—T. D. Day—*Skirt Hoop.*49733—O. P. Dills—*Plow.*49734—C. Dreher—*Tail Board of Wagon.*49736—B. F. Ellis—*Paper Bag.*49735—A. Edwards—*Animal Trap.*

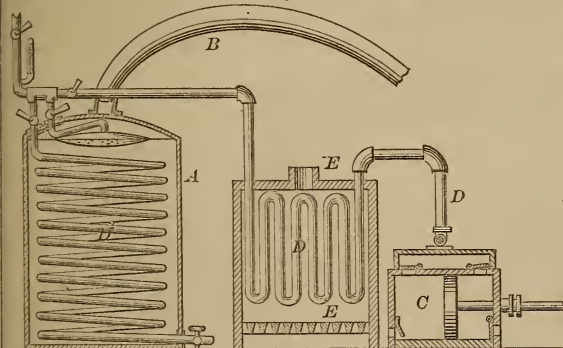
49737—D. R. Erdmann—*Removing Cars.*



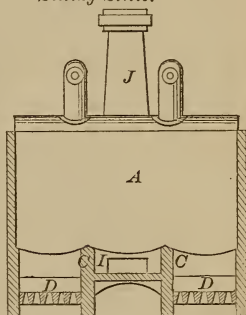
49738—J. M. Estabrook—*Measuring Funnel.*



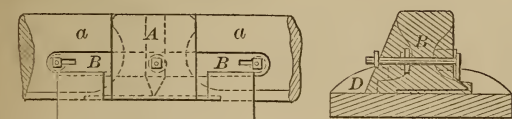
49739—L. S. Fales—*Distilling Petroleum.*



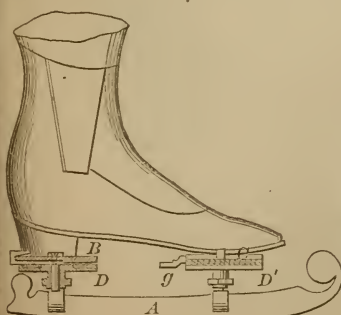
49740—L. S. Fales—*Setting Stills.*



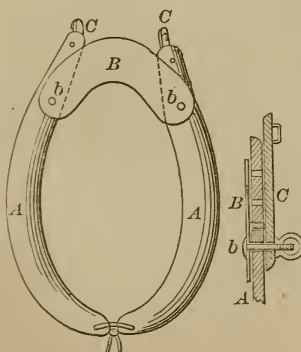
49742—B. F. Farrar—*Railroad Rail.*



49741—D. J. Farmer—*Skate.*



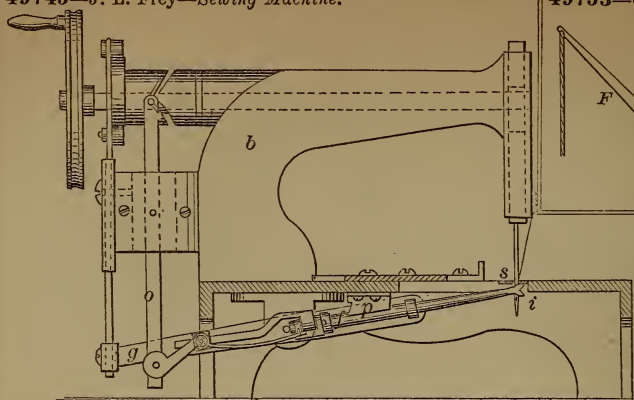
49743—C. J. Fisher—*Horse Collar.*



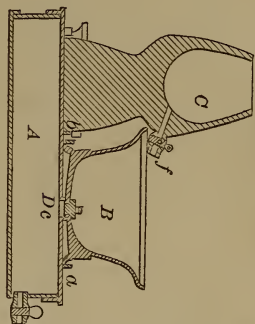
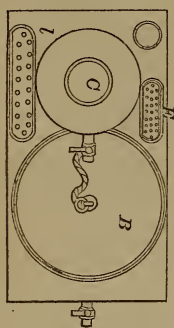
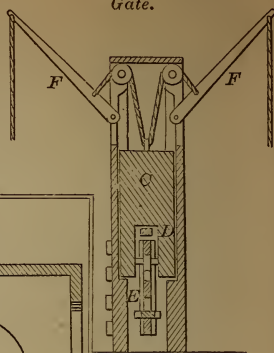
49744—
J. W. Foard—*Paper Holder.*



49745—J. L. Frey—Sewing Machine.

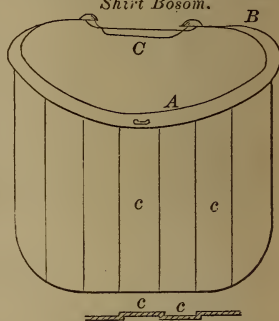


49753—Grenell, Bez & Stoll—Gate.

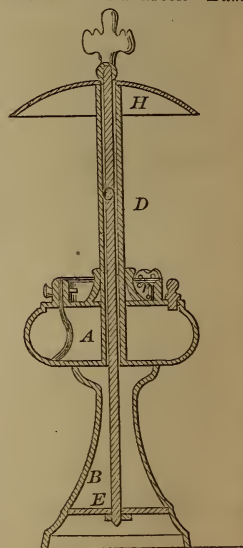


49748—C. C. H. Glidden—Washing Apparatus.

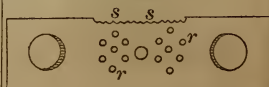
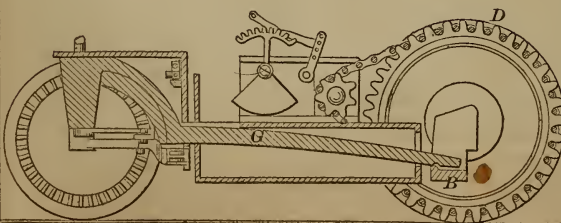
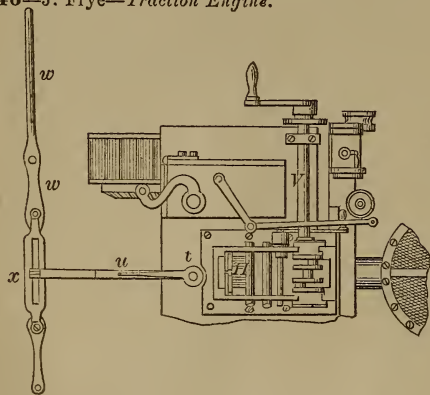
49747—J. B. Gardiner—Paper Shirt Bosom.



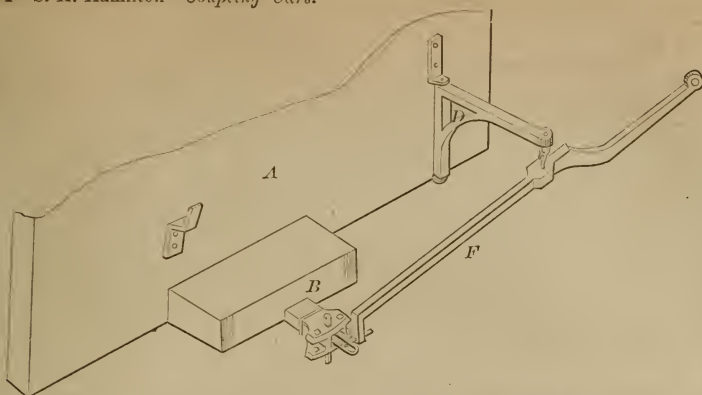
49752—E. H. Green—Lamp.



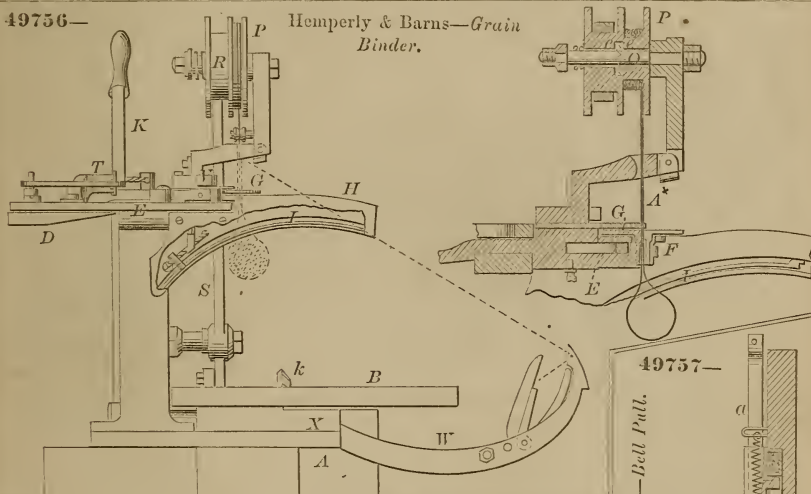
49746—J. Frye—Traction Engine.



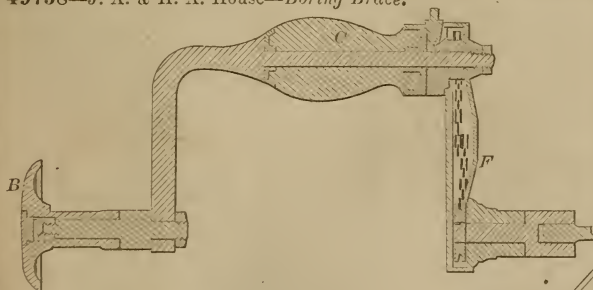
49754—S. H. Hamilton—Coupling Cars.



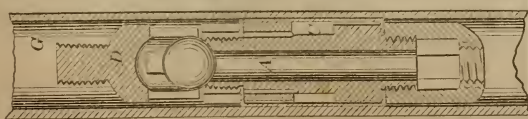
49756—Hemperly & Barns—Grain Binder.



49758—J. A. & H. A. House—Boring Brace.

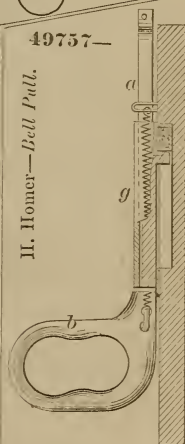


49759—C. H. Jackson—Piston Packing.

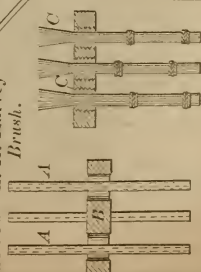


49757—

H. Homer—Bell Pull.



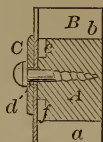
49755—E. A. Harvey—Brush.



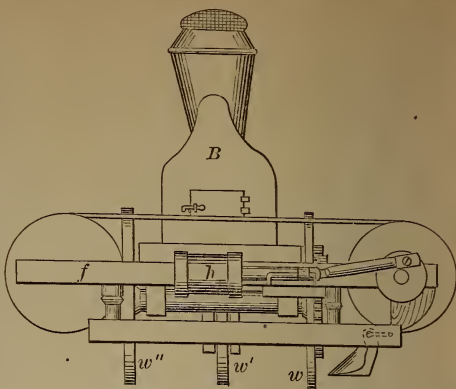
49760—

R. W. Jenks—
Match Safe.

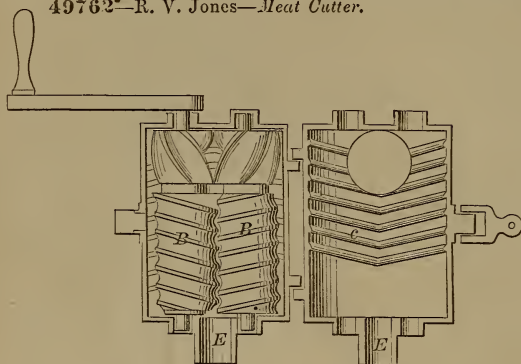
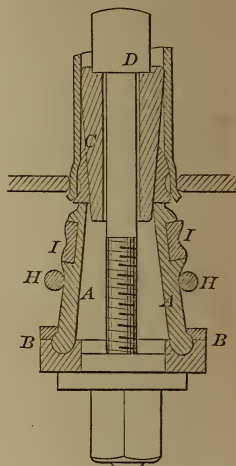
49764

T. K. Knapp—
Scissors Sharpener.

49761—C. F. Johnson, Jr.—Steam Plow.



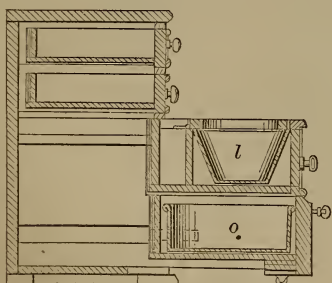
49762—R. V. Jones—Meat Cutter.

49765—J. H. Knickerbocker—
Tube Expander.

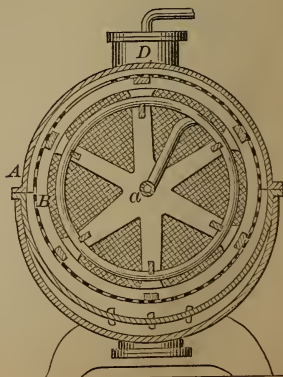
49763—King & Hargraves—Rail Joint.



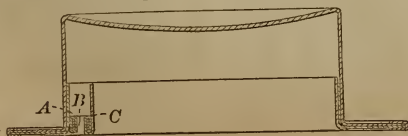
49766—G. W. Koch—Bureau and Commode.



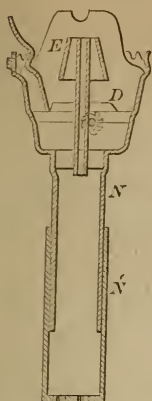
49768—A. Kreusler—Preparing Malt.



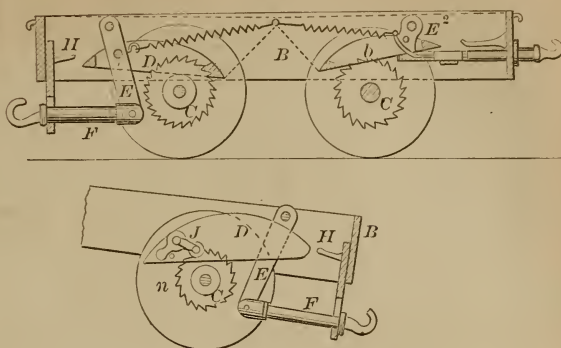
49767—A. Komp—Hat Ventilator.



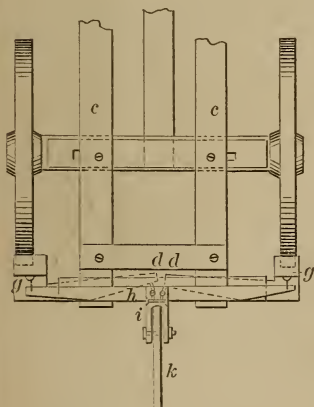
49769—W. Lassell—*Lamp.*



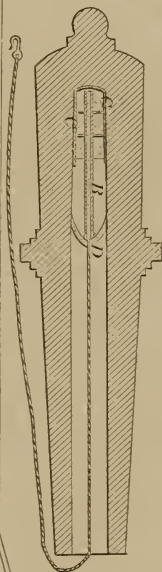
49770—W. Lawton—*Starting Cars.*



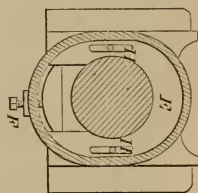
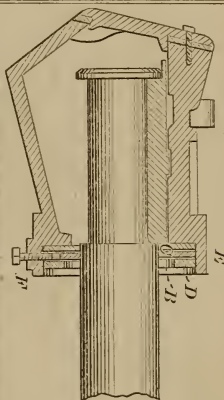
49771—N. Lezat—*Wagon Brake.*



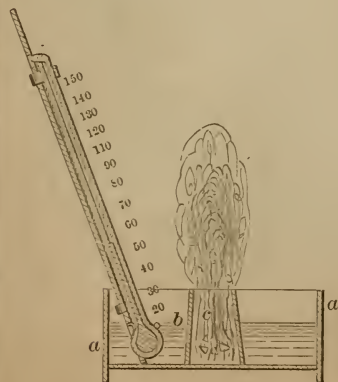
49773—O. Lugo—*Ordnance Projectile.*



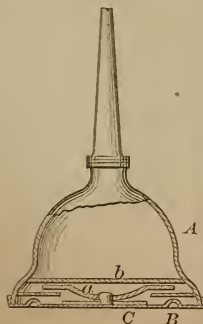
49772—E. Lockwood—*Auto Box.*



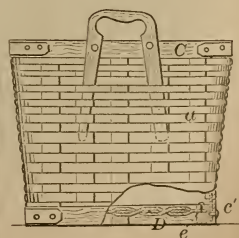
49777—A. Millochau—*Petroleum Test.*



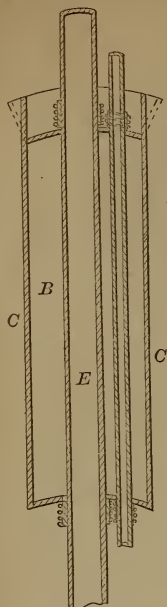
49776—J. Mayher—*Oil Can.*



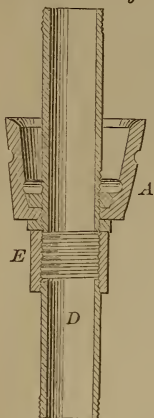
49774—E. B. Lyman—*Basket.*



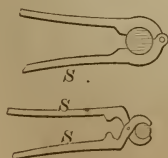
49778—G. E. Mills—*Well Tube Packing.*



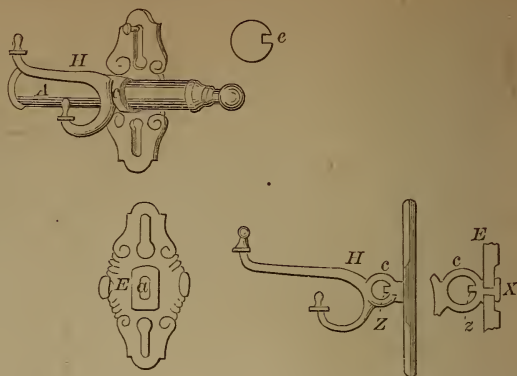
49783—J. Parham, Jr.—*Well Tube Packing.*



49786—J. C. Plumer—*Spring.*



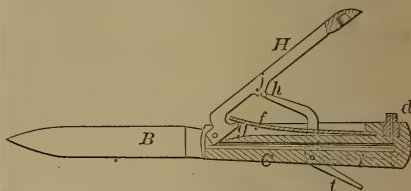
49779—J. O. Montignani—*Clothes Rack.*



49781—A. M. Olds—*Sifting Shovel.*



49784—A. J. Peavey—*Knife and Pistol.*



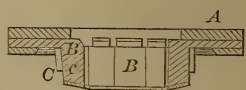
49780—F. V. Noyes—*Door Mat.*



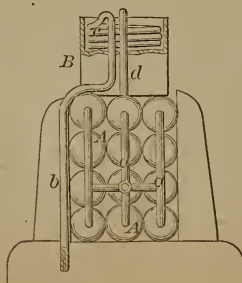
49782—W. Painter—*Joining Metal Bands.*



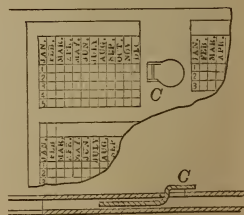
49785—T. W. Peirce—*Cane Stripper.*



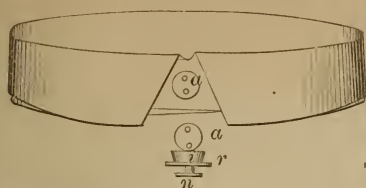
49787—L. Ransom—*Reservoir for Compressed Air.*



49788—W. T. Ray—*Library Register.*



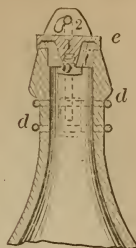
49789—Ridge & Estell—*Shirt Collar Stud.*



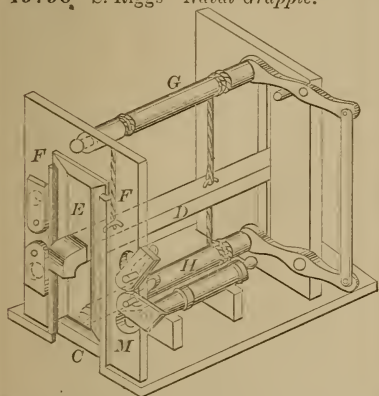
49792—W. Rosee—*Bullet.*



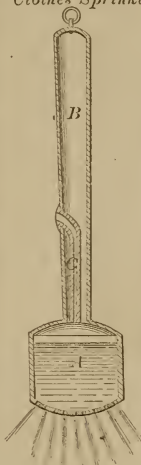
49793—F. Schlich—*Bottle Stopper.*



49790—S. Riggs—*Naval Grapple.*



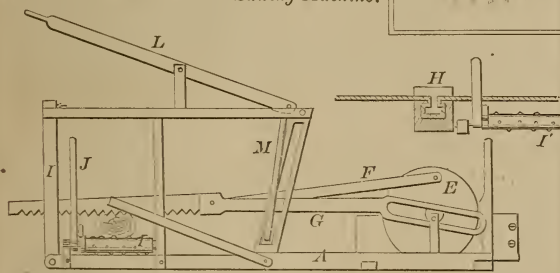
49794—E. Schnurr—*Clothes Sprinkler.*



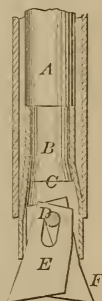
49795—S. J. Seely—*Root and Shoe Soles.*



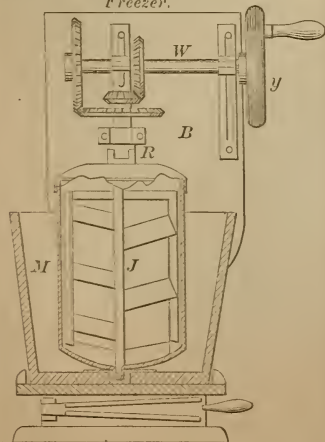
49791—F. W. Robinson—*Sawing Machine.*



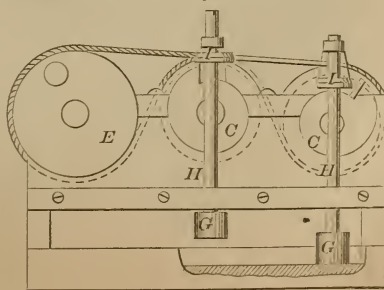
49798—J. Shaw—*Well Drill.*



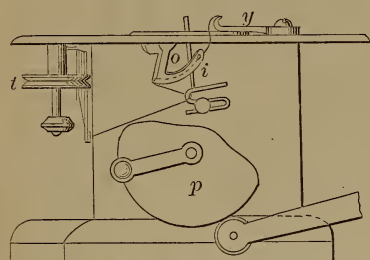
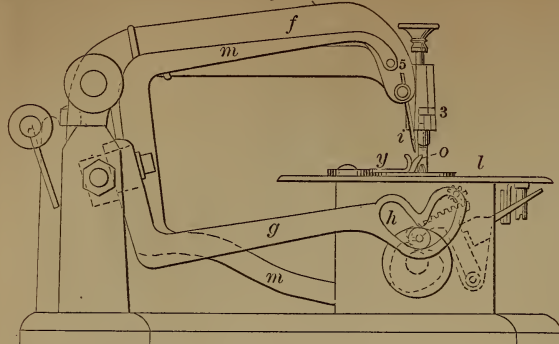
49797—J. S. Shattuck—*Ice Cream Freezer.*



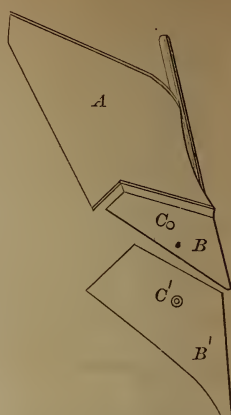
49796—D. Sexton—*Quartz Crusher.*



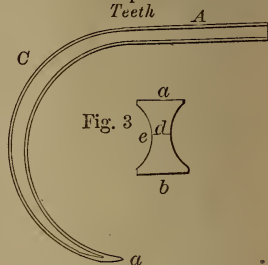
49803—J. N. Tarbox—Sewing Machine.



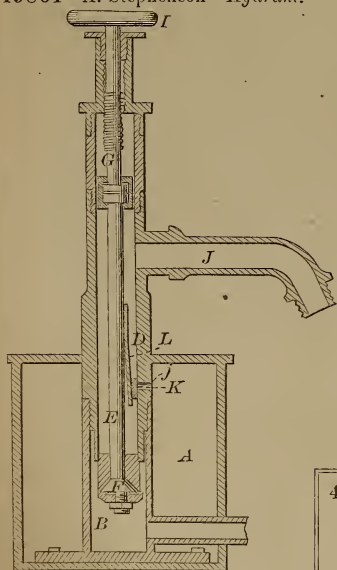
49799—W. S. Spratt—Plov.



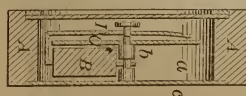
49800—A. B. Sprout—Horse Rake Teeth



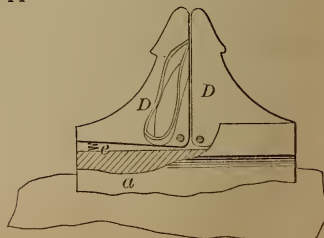
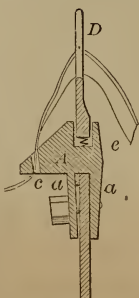
49801—A. Stephenson—Hydrant.



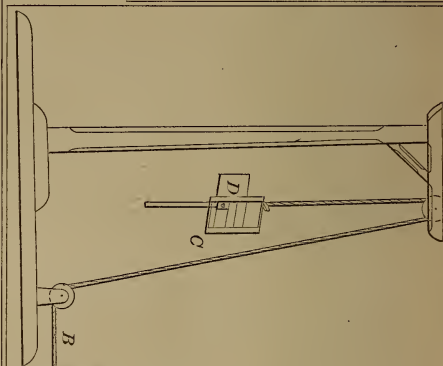
49802—B. F. St. John—Pendulum Level.



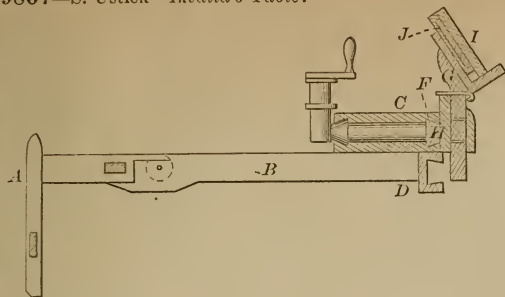
49806—T. L. Tripp—Rein Holder.



49805—W. H. Totten—Hod Elevator.



49807—S. Ustick—*Invalid's Table.*



49810—G. I. Washburn—*Steam Generator.*

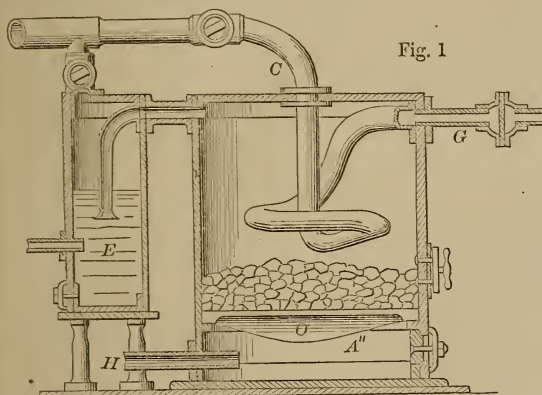
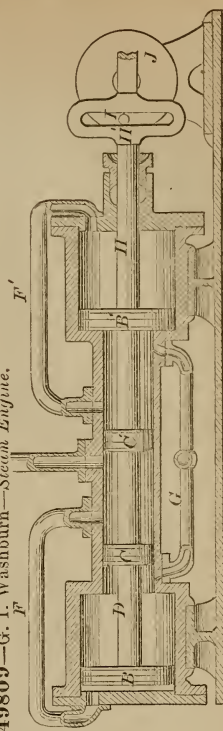
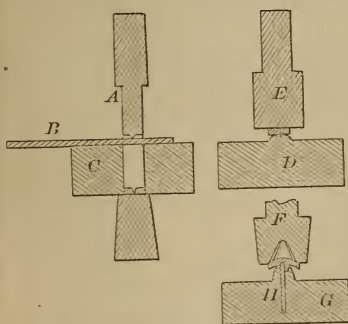


Fig. 1

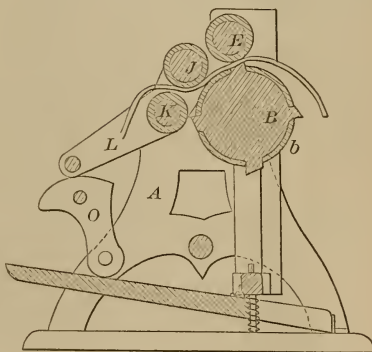
49809—G. I. Washburn—*Steam Engine.*



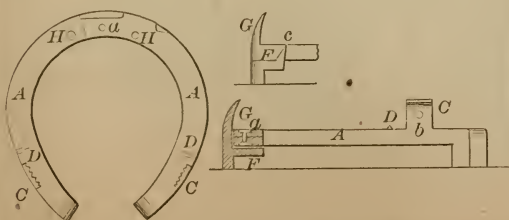
49808—W. H. Van Gieson—*Furniture Nails.*



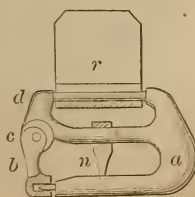
49811—S. S. Weed—*Tanning.*



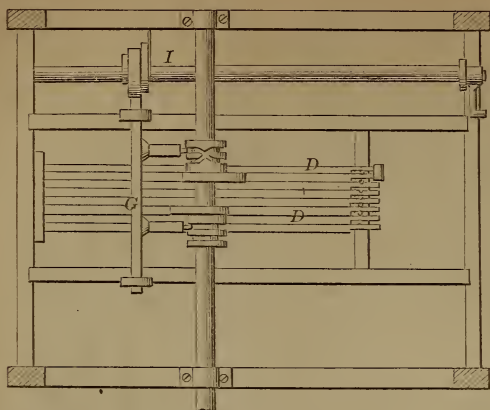
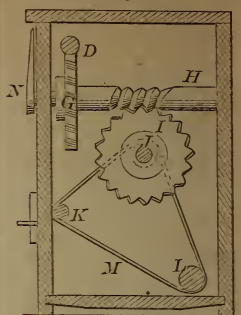
49812—A. Weitman—*Horse Shoe.*



49813—C. H. Wellman—*Stirrup Fastening.*



49814—J. Welsh—Loom.

49817—J. T. Wiley—
Grain Register.

49816—E. G. Whiting—Plow.

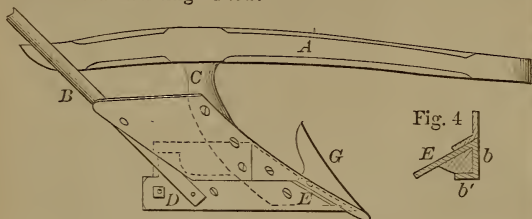
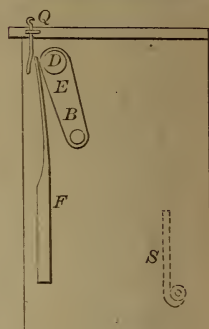
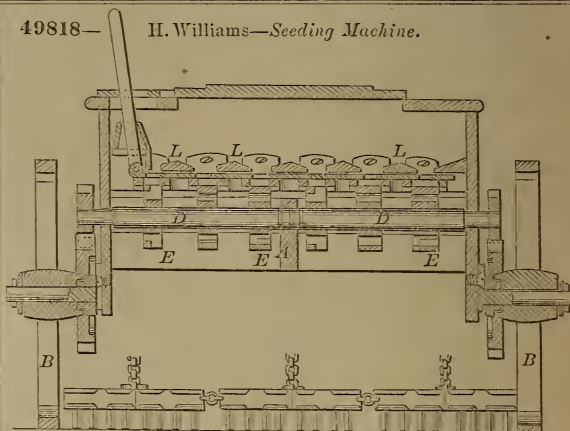


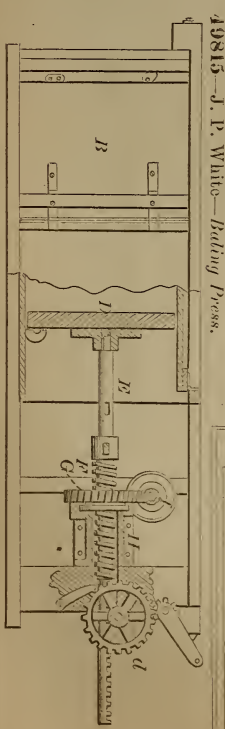
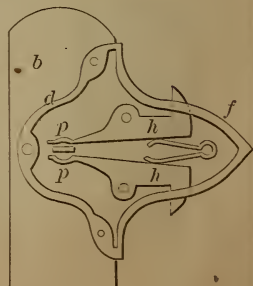
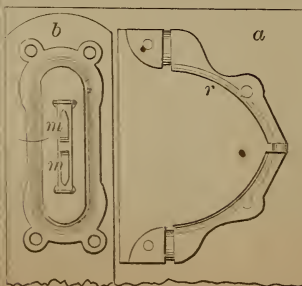
Fig. 4



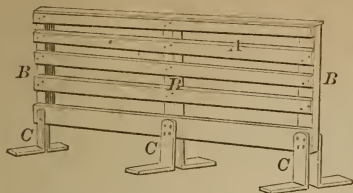
49818—H. Williams—Seeding Machine.



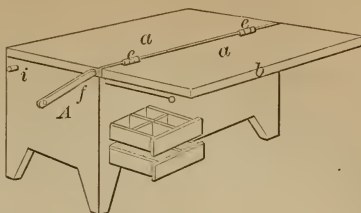
49819—J. P. Woodcock—Gate Fastening.



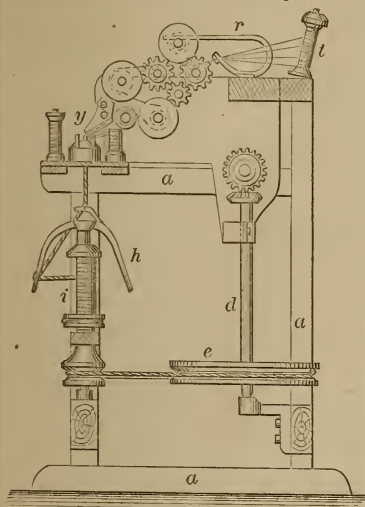
49820—W. D. Woodruff—*Fence.*



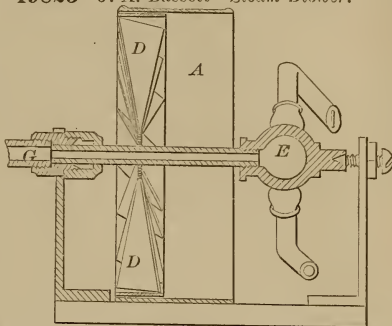
49821—G. W. Ziegler—*Chest and Table.*



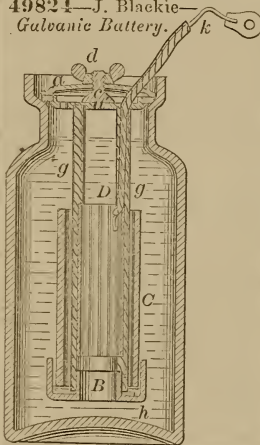
49825—J. Buser—*For Covering Cord.*



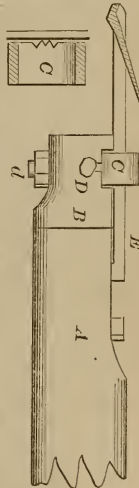
49823—J. A. Bassett—*Steam Blower.*



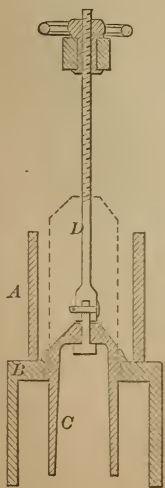
49824—J. Blackie—*Galvanic Battery.*



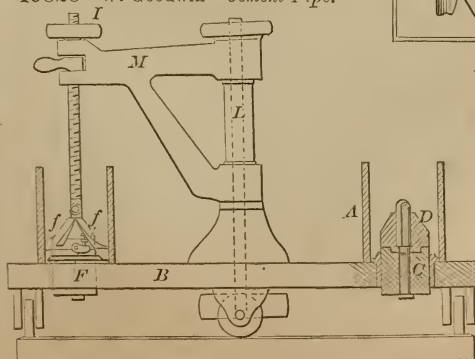
49822—W. C. Barker—*Seal-Plate Fastening.*



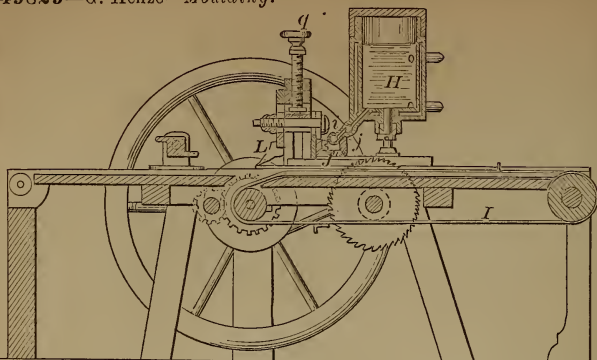
49827—J. E. Earle—*Cement Pipe.*



49828—W. Goodwin—*Cement Pipe.*



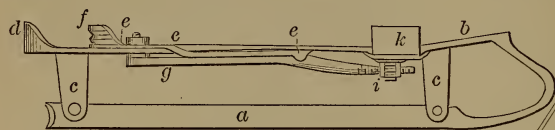
49829—G. Henze—Moulding.



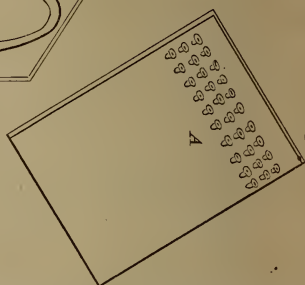
49830—L. J. Labounty—Loom.



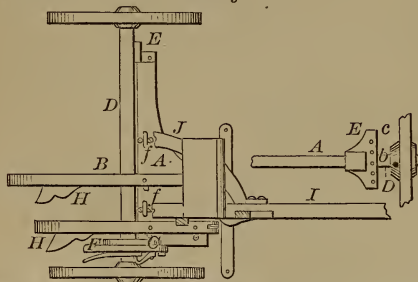
49832—E. Murray—Skate.



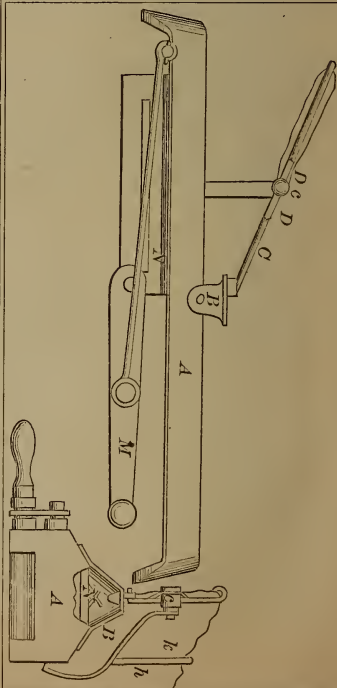
49836—H. S. Shepardon—Grater.



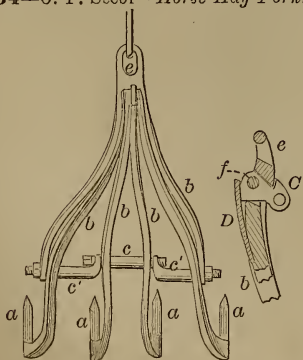
49833—I. C. Pratt—Sulky Plow.



49835—A. Sessions, Jr.—Knitting Machine.



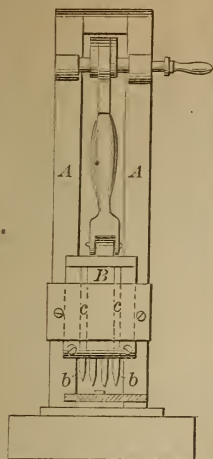
49834—O. P. Secor—Horse Hay Fork.



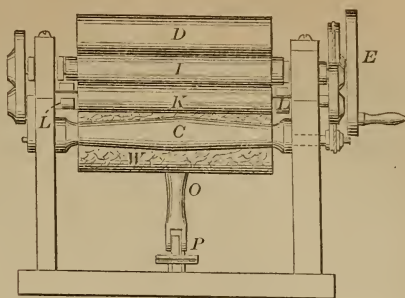
49837—J. J. Sibley—Sewing Machine Stitch.



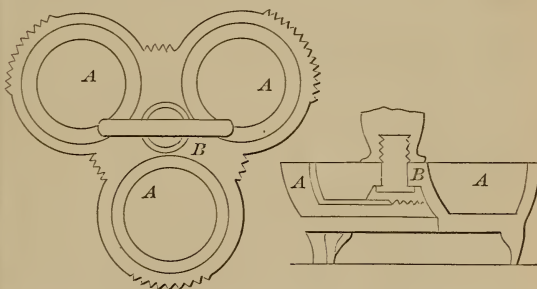
49838—S. D. Turner—*Horse Shoes.*



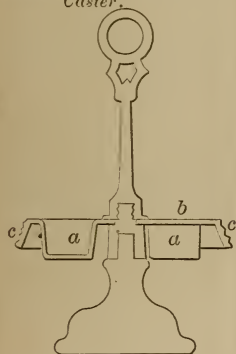
49839—S. S. Weed—*Tanning.*



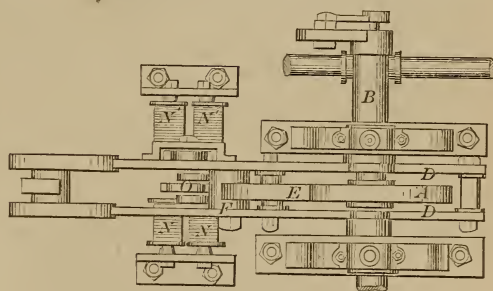
49841—A. E. Young—*Caster.*



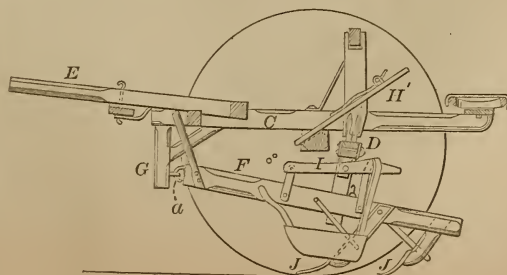
49840—A. E. Young—*Caster.*



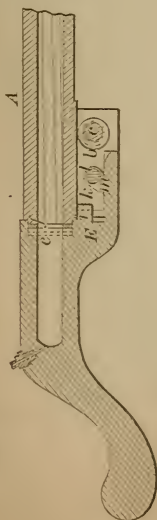
49842—F. F. A. Achard—*Electro-Magnetic Regulator.*



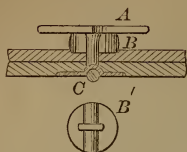
49845—J. A. Bardel—*Cultivator.*



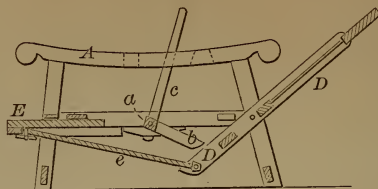
49844—J. D. Dougall—*Fire Arm.*



49846—
E. T. Barnum—
Button.



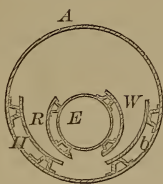
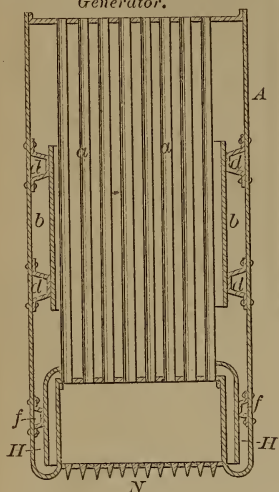
49849—Blackburn & Terrel—*Invalid's*
Chair.



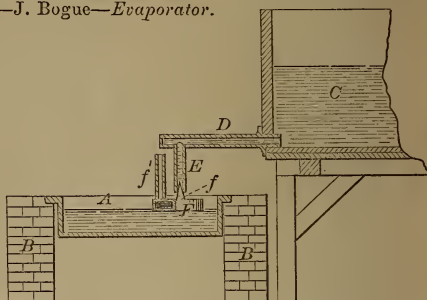
49850—
Blaisdell & Atwood—
Carpet Fastener.



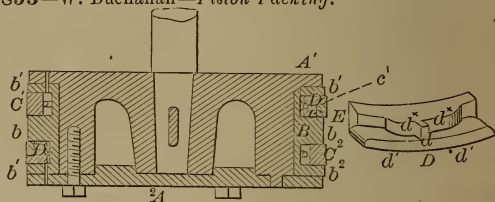
49847—J. D. Beers—*Steam*
Generator.



49851—J. Bogue—*Evaporator.*



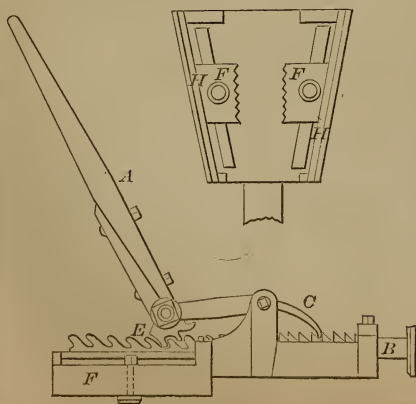
49853—W. Buchanan—*Piston Packing.*



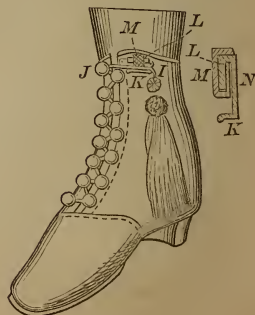
49848—H. Berdan—*Gun Wiper.*



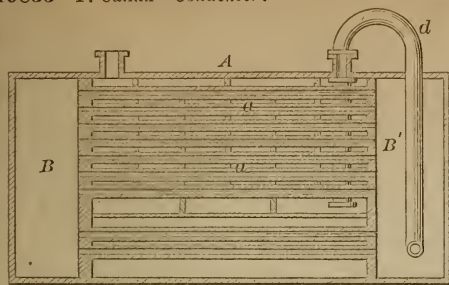
49852—J. L. Bryant—*Floor Clamp.*



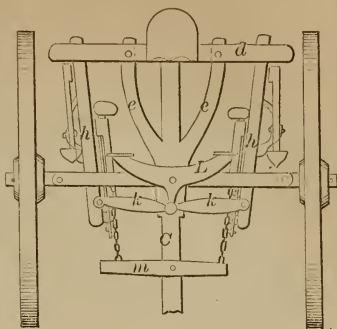
49854—C. Burchardt—*Shoe Fastening.*



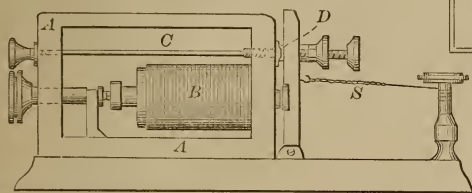
49855—F. Callan—Condenser.



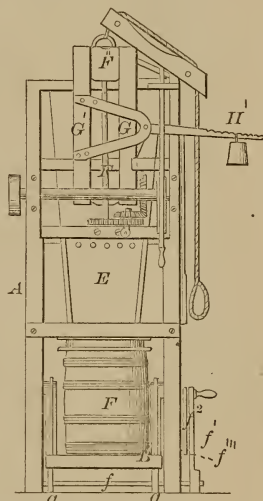
49856—J. Chapman—Cultivator.



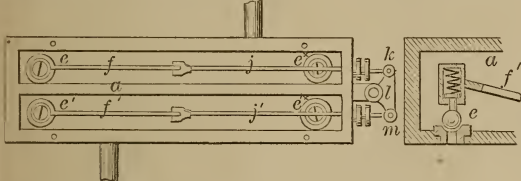
49857—Clark & Splitdorf—Sounder Magnet.



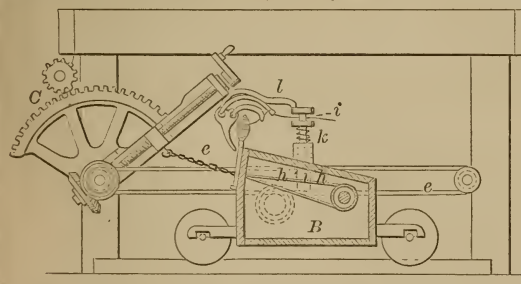
49859—I. Cook—Flour Packer.



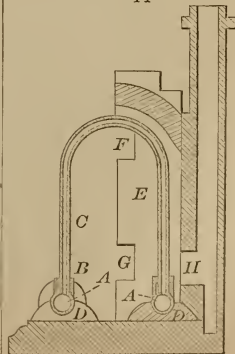
49858—T. Clark—Steam Valves.



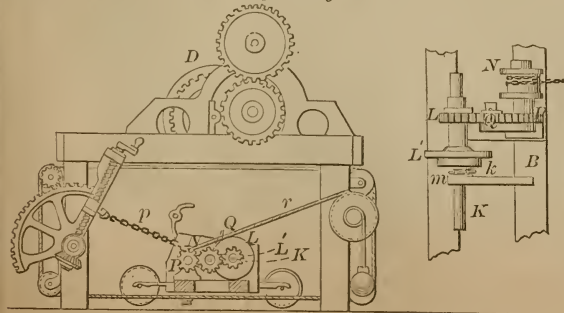
49860—A. G. Cumnock—Self-Acting Mule.



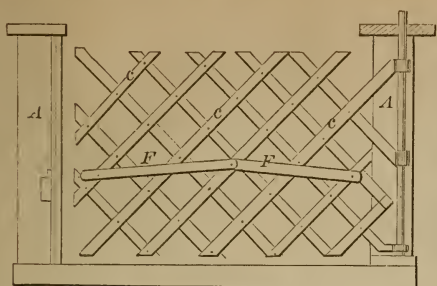
49862—R. Denholm—Hot Blast Apparatus.



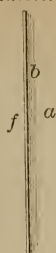
49861—A. G. Cumnock—Self-Acting Mule.



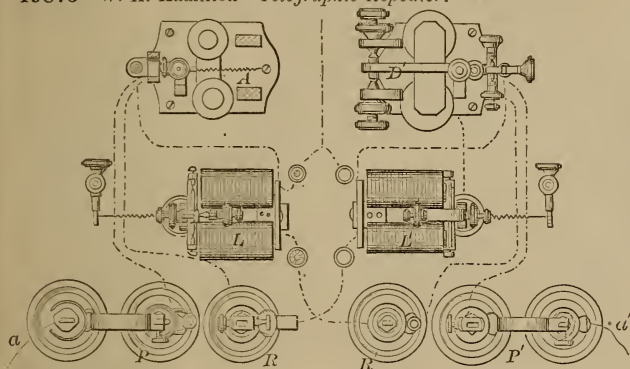
49873—S. M. Gillett—*Gate.*



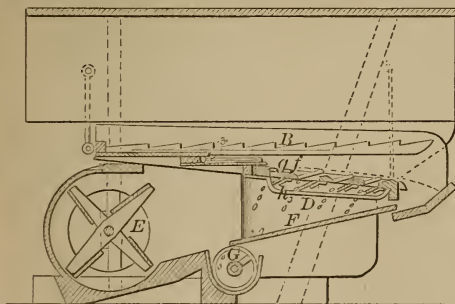
49874—
J. K. Gittens—
Insole.



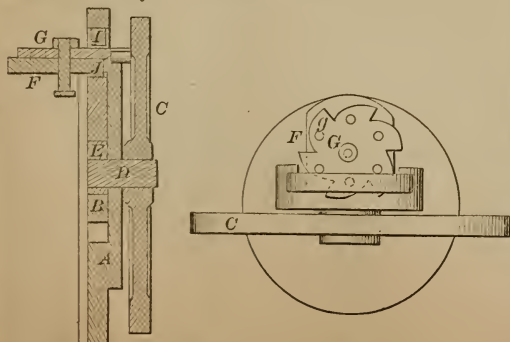
49875—W. H. Hamilton—*Telegraphic Repeater.*



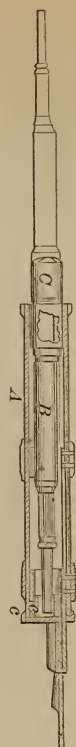
49876—Harrison & Buchanan—*Grain Separator.*



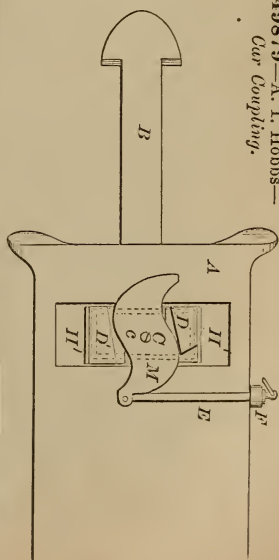
49877—P. Hayden—*Automatic Press.*



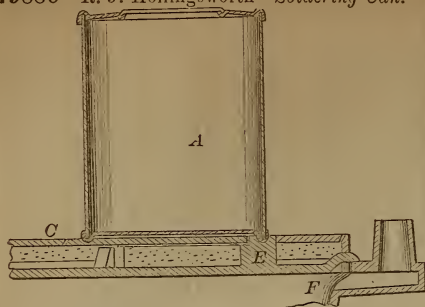
49878—W. S. Hicks—*Pencil Case.*



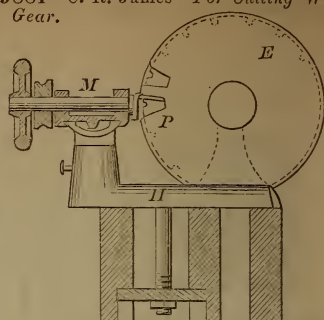
49879—A. I. Hobbs—
Car Coupling.



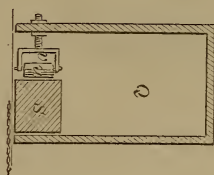
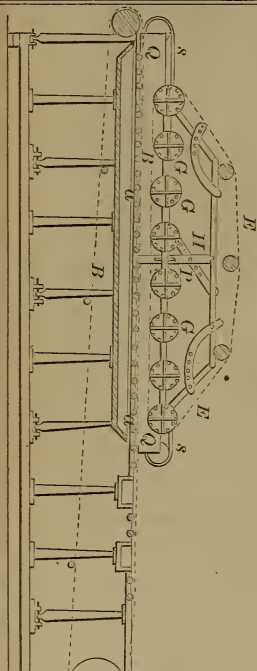
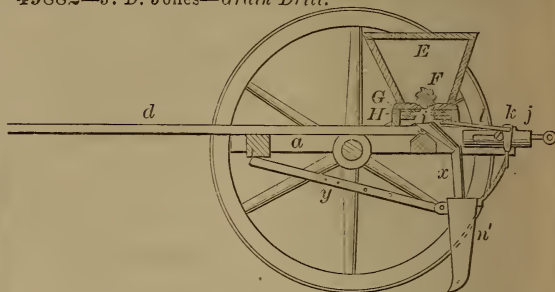
49880—R. J. Hollingsworth—Soldering Can.



49881—C. R. James—For Cutting Wood Gear.

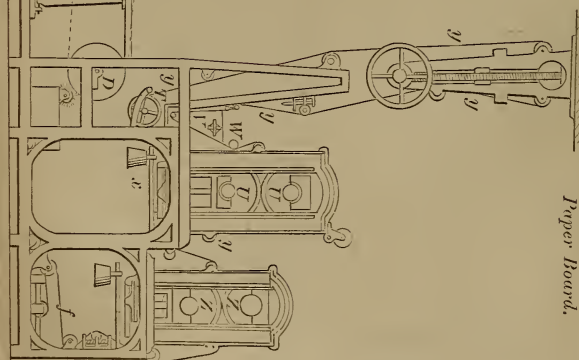


49882—J. D. Jones—Grain Drill.

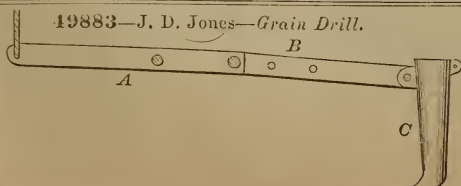


49884—J. F. Jones—

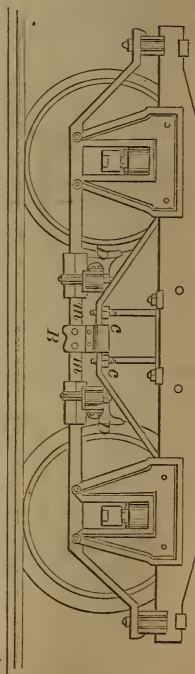
Paper Board.



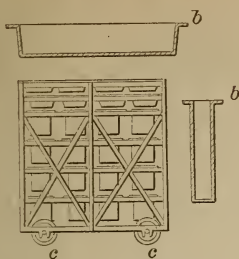
49883—J. D. Jones—Grain Drill.



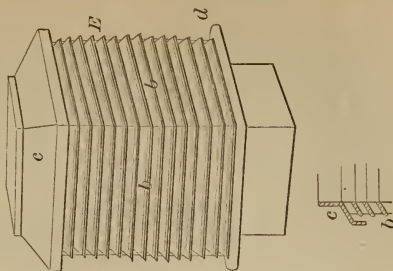
49885—J. Jones—Car Brake.



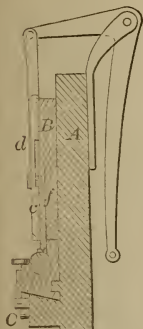
49887—Keller & Henderson—
Making Ice.



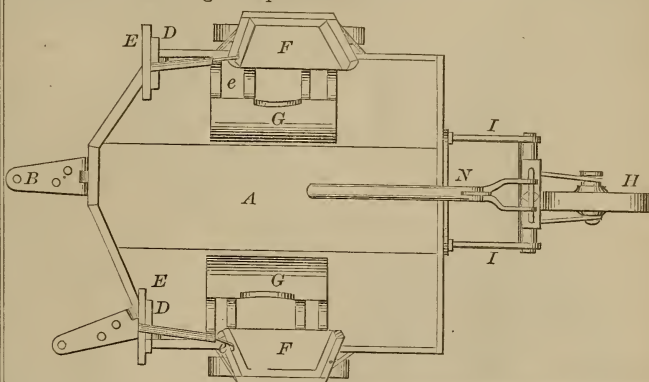
49890—J. H. Kirkwood—
Chimney Cap.



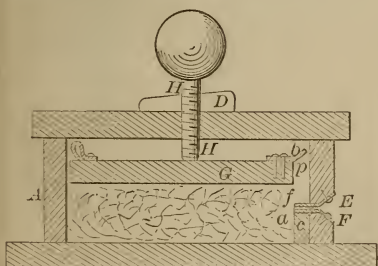
49888—D. Kelly—
Window Blind.



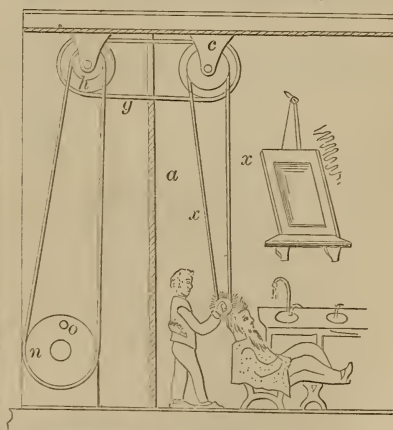
49889—J. M. King—Reaper and Binder.



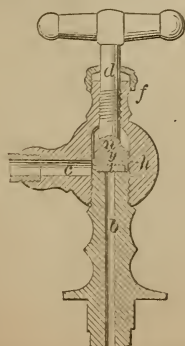
49892—W. T. Kosinski—Knife Cleaner.



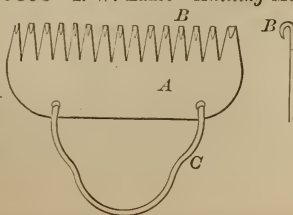
49893—C. P. Kroll—For Brushing Hair.

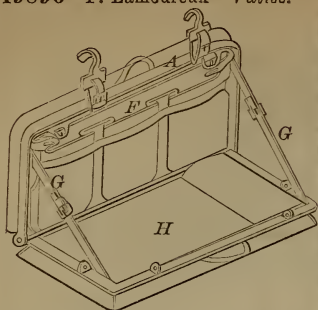
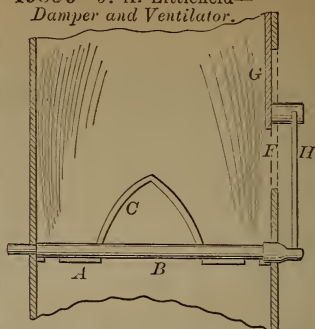
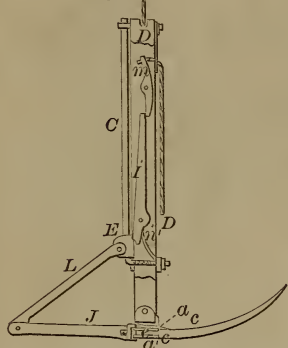
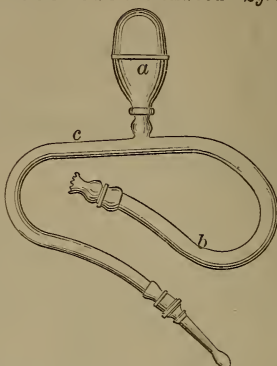
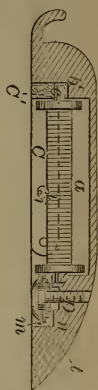
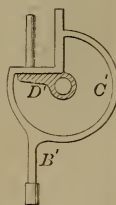
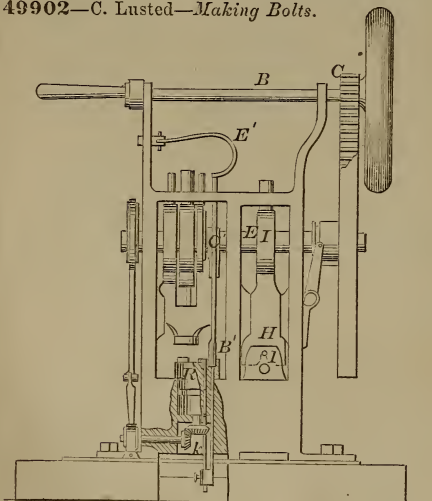
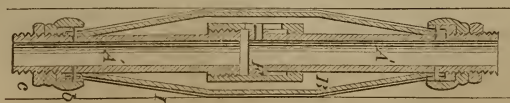
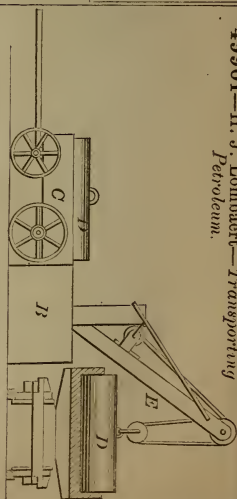


49894—W. Krull—Faucet Valve.

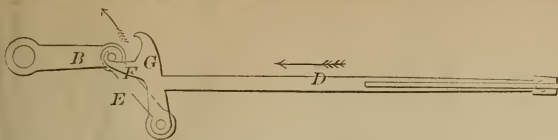


49895—I. W. Lamb—Knitting Machine.

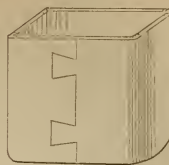


49896—F. Lamoureux—*Valise.*49899—J. H. Littlefield—*Damper and Ventilator.*49897—S. F. Leavitt—*Horse Hay Fork.*49900—H. D. Lockwood—*Syringe.*49898—J. H. Littlefield—*Hammer.*49904—J. S. McCurdy—*Sewing Machine Shuttle.*49902—C. Lusted—*Making Bolts.*49903—F. Martin—*Well Packing.*49901—H. J. Lombart—*Transporting Petroleum.*

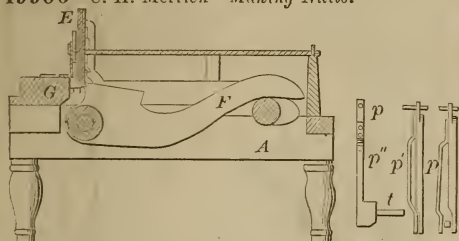
49905—W. C. McGill—*Mechanical Movement.*



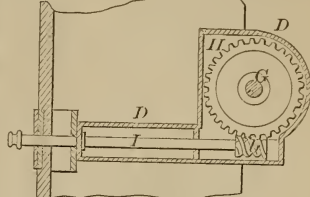
49908—E. Morris—*Fruit Box.*



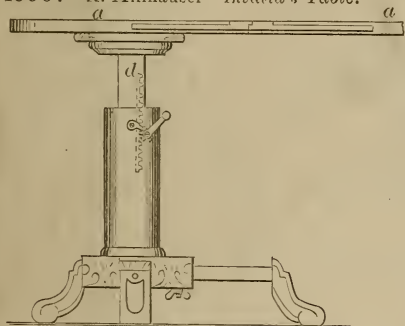
49906—C. H. Merriek—*Making Nails.*



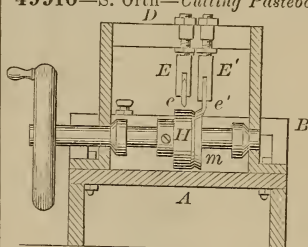
49909—Morton & Lumsure—*Closing Shutters.*



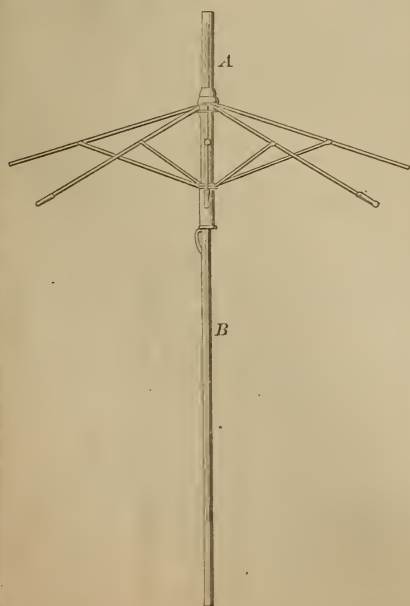
49907—A. Millhauser—*Invalid's Table.*



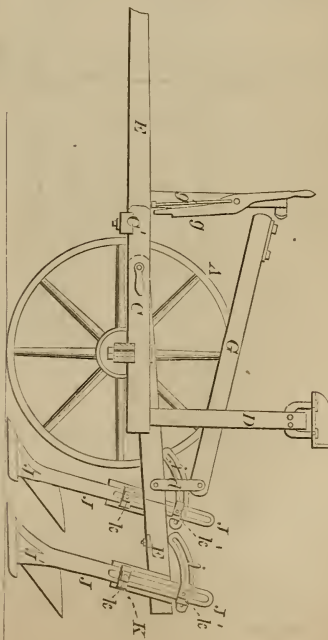
49910—S. Orth—*Cutting Pasteboard.*

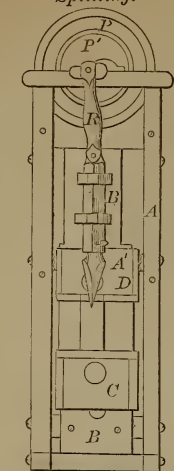
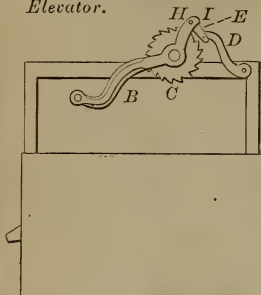
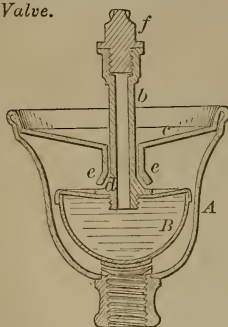
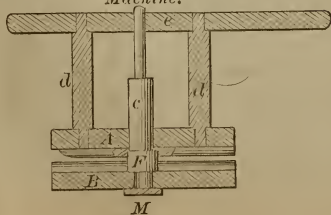


49912—G. L. Peabody—*Umbrella.*

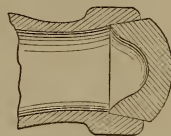
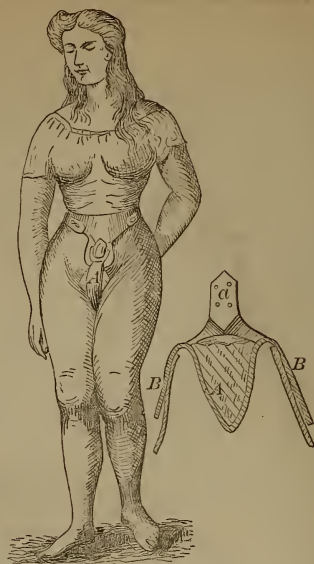


49911—J. S. Paton—*Gang Plow.*

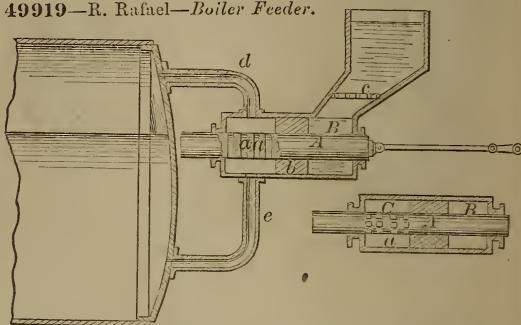
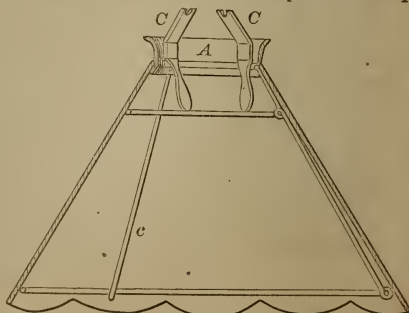


49913—B. F. Penny—Wood
Splitting.49914—P. Perrine—Water
Elevator.49918—F. Presser—Steam
Valve.49920—L. E. Ransom—Washing
Machine.

49915—E. L. Perry—Cutaneous Sack.

49916—
Perry & Lazell—
Artificial Cork.

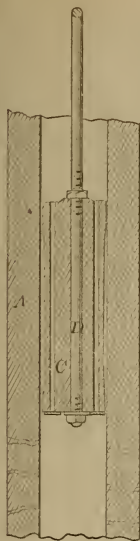
49919—R. Rafael—Boiler Feeder.

49921—C. Reichmann—Lamp Shade
Clasp.

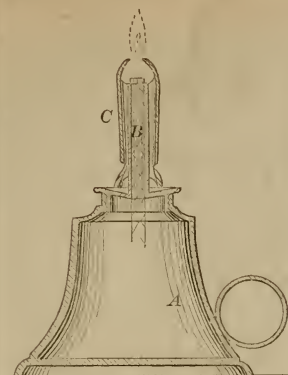
49917—S. Perry—Saw Mill.



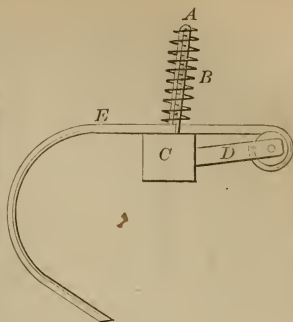
49922—I. Relf—*Expelling Oil from Wells.*



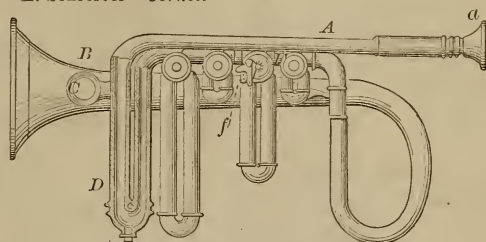
49924—E. Roberts—*Lamp.*



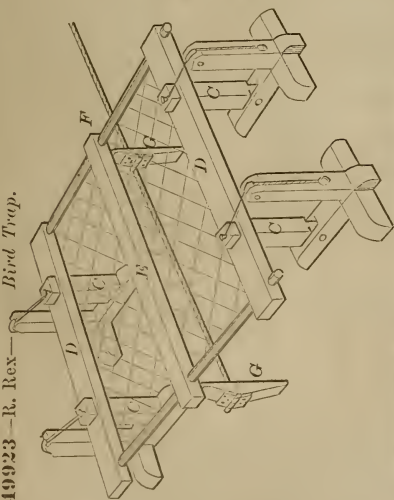
49926—F. Seidle—*Horse Rake.*



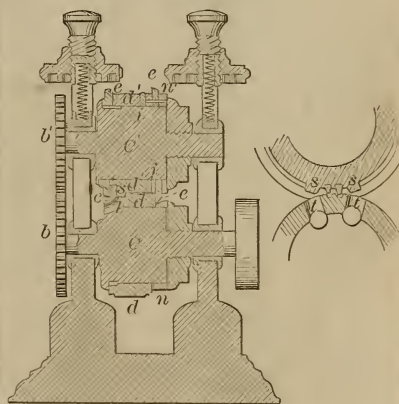
49925—L. Schreiber—*Cornet.*



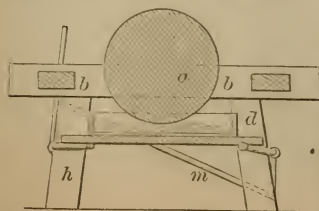
49923—R. Rex—*Bird Trap.*



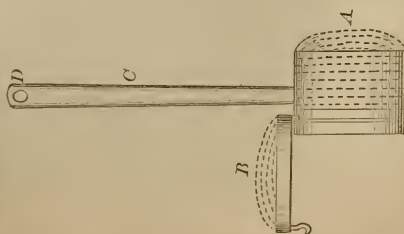
49927—Shepherd & George—*Paper Collar Machine.*

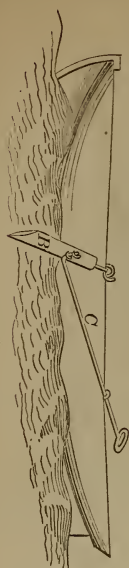


49928—J. F. Shillaber—*Grindstone.*

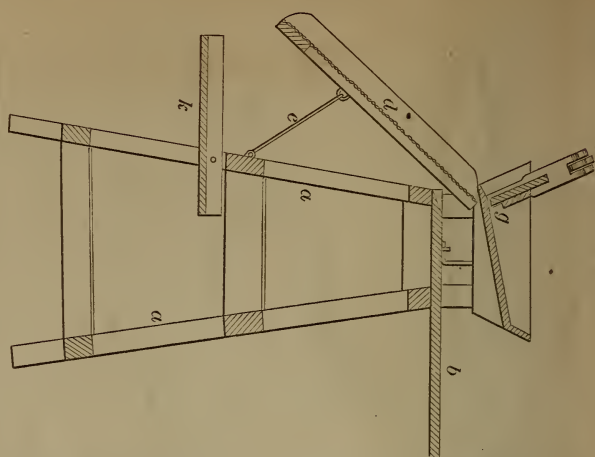


49929—J. O. Shriner—*Coffee and Tea Drawer.*



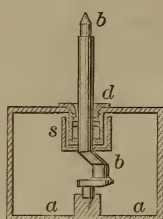


49930—R. Smith—Rigged Oar.

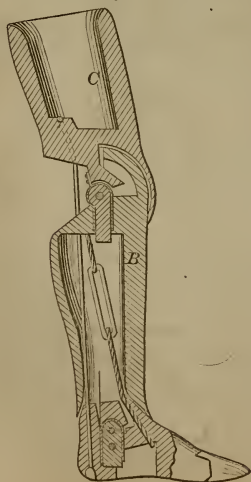


49932—W. Sparks—Coal Screen.

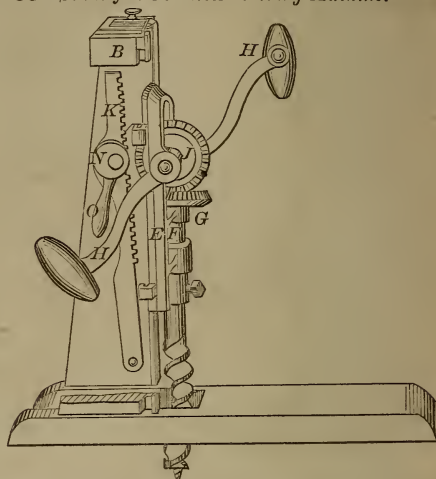
49935—N. Tufts, Jr.—Gas Meter.



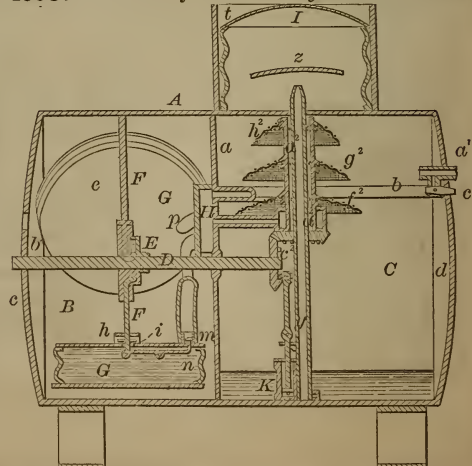
49936—J. Walber—Artificial Leg.



49933—Stanley & Johnson—Boring Machine.



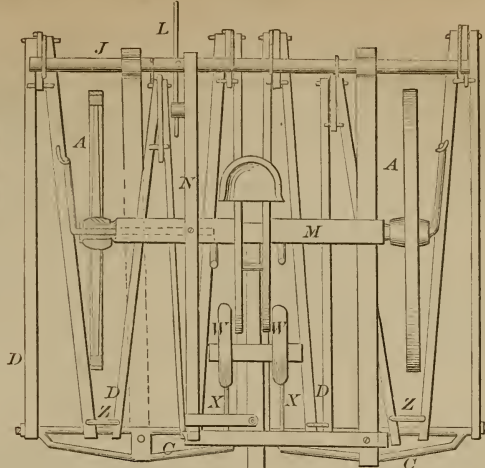
49934—J. B. Terry—Carbureting Air.



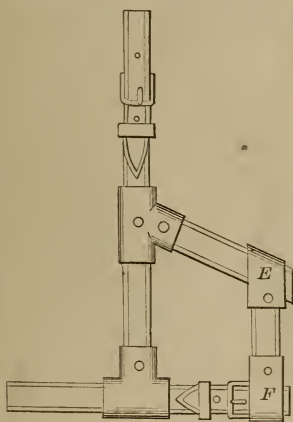
49937—D. T. Walker—Punching Metal.



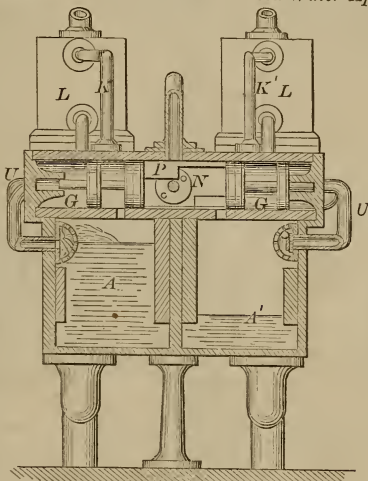
49938—L. B. Walker—Cultivator.



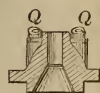
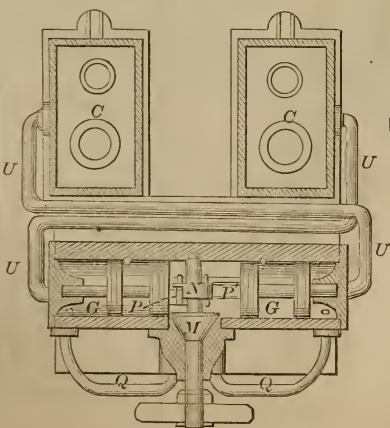
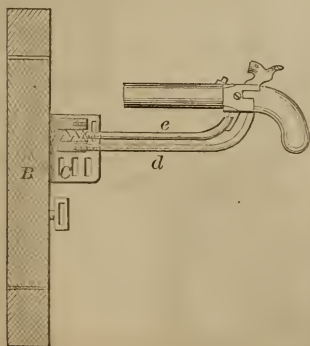
49939—H. B. Ware—Halter.

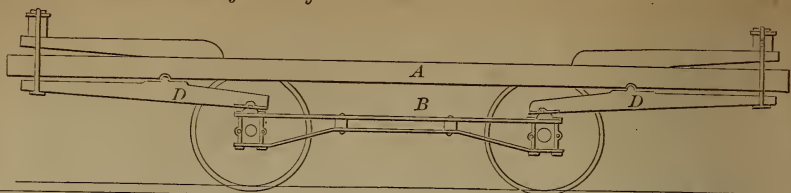
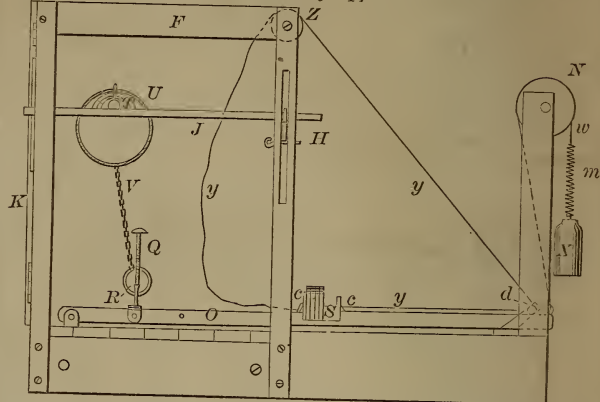
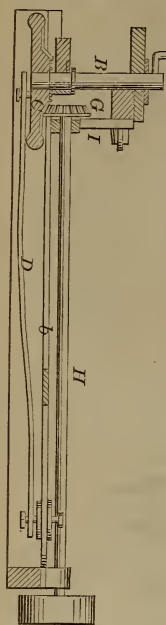
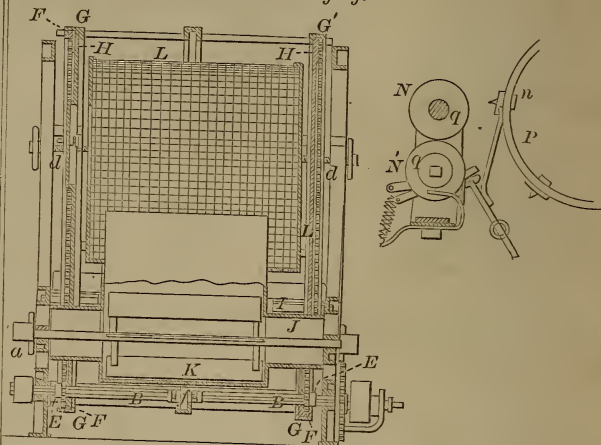
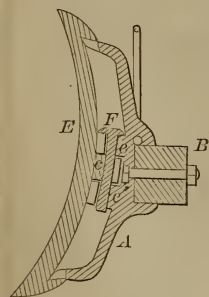
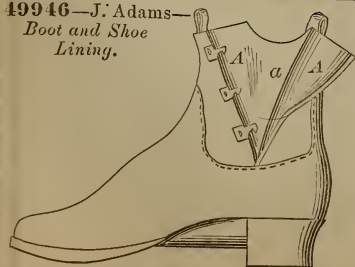
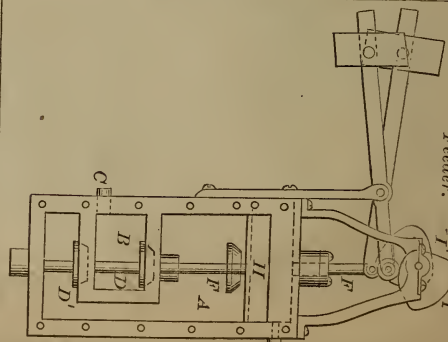


49941—G. I. Washburn—Feed Water Apparatus.

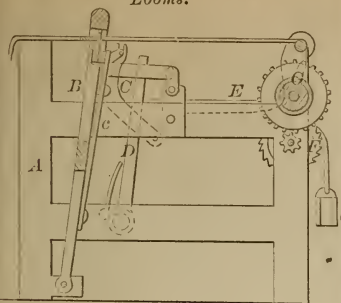


49940—E. Warne—Burglar Alarm.

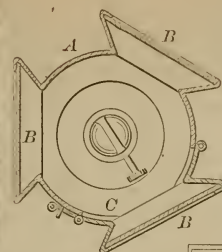


49942—L. H. West—*Railway Carriage.*49945—G. B. Windship—*Lifting Apparatus.*49944—White & Boswick—*Horse Power.*49947—C. F. Bennett—*Cloth Drying.*49948—J. Christy—*Brake Shoe.*49946—J. Adams—*Boot and Shoe Lining.*49949—S. Driver—*Automatic Boiler Feeder.*

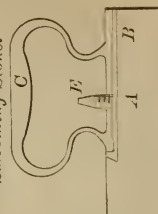
49950—S. Estes—*Let-off Motion for Looms.*



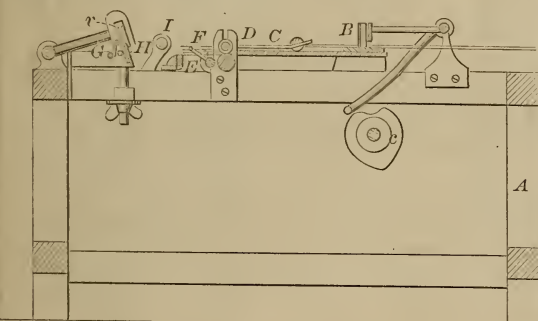
49953—S. Roebuck—*Lantern.*



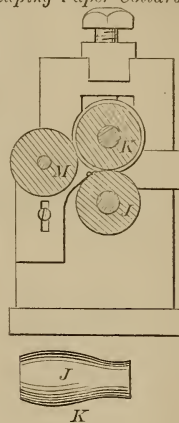
49956—J. E. Tucker—*Smoother Stone.*



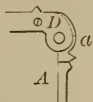
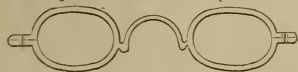
49951—E. W. Goodale—*Paper Bag Machine.*



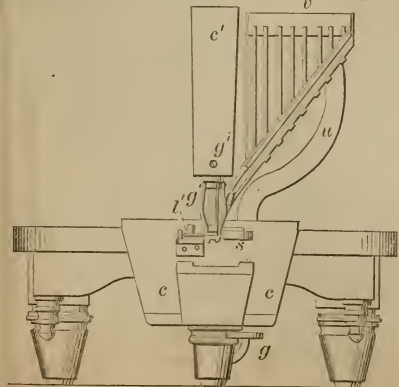
49952—Lockwood & Howson—*Shaping Paper Collars.*



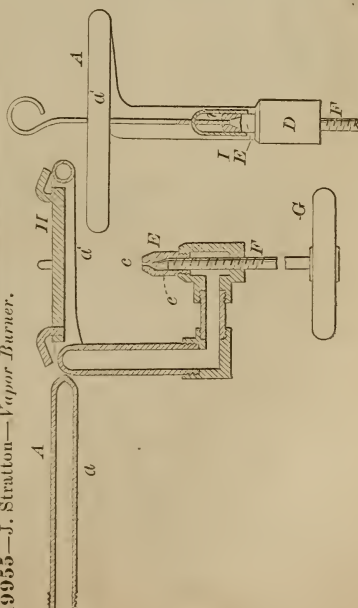
49951—Spencer & Want—*Spectacle Frame.*



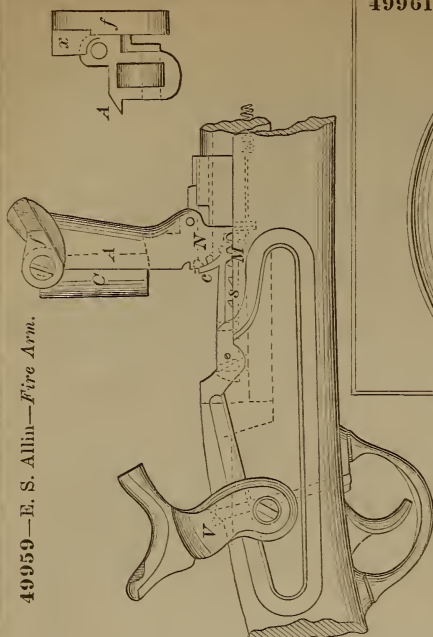
49957—G. F. Wright—*Hoop Skirt Clasps.*



49955—J. Stratton—*Vapor Burner.*



49959—E. S. Allin—Fire Arm.

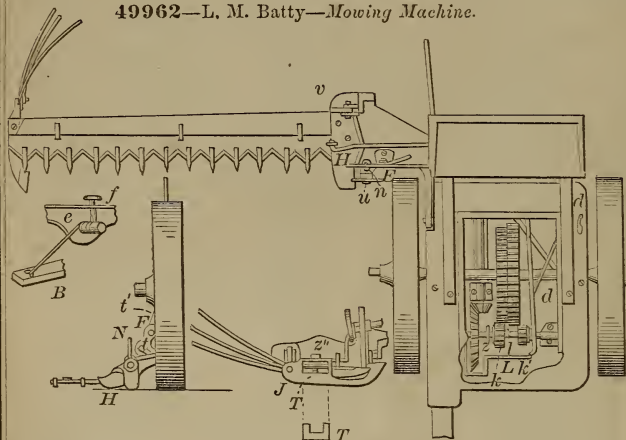
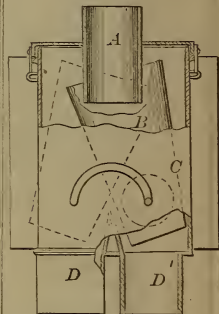


49961—C. Barnes—

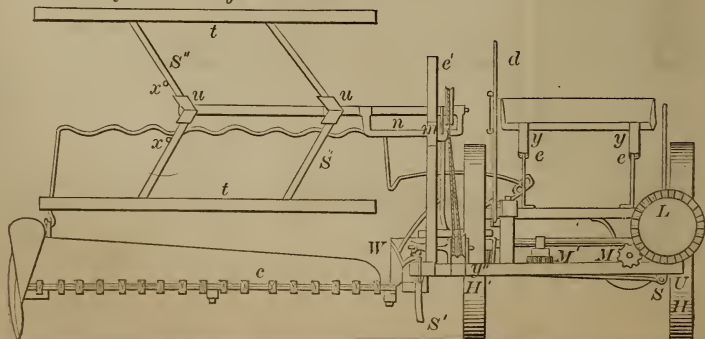
Steam Gauge.



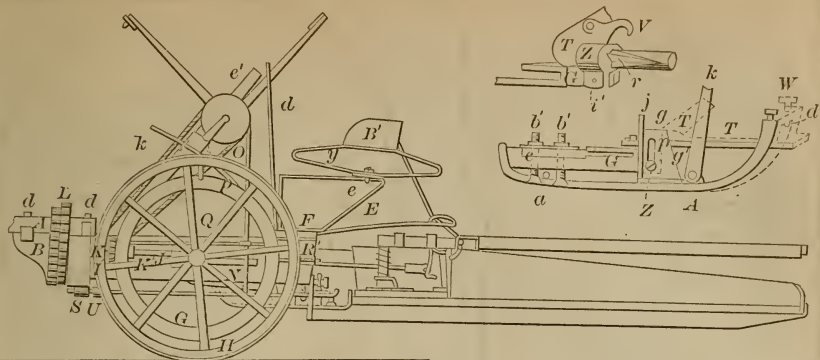
49962—L. M. Batty—Mowing Machine.

49960—J. Ash—
Water Conductor
Cut-off.

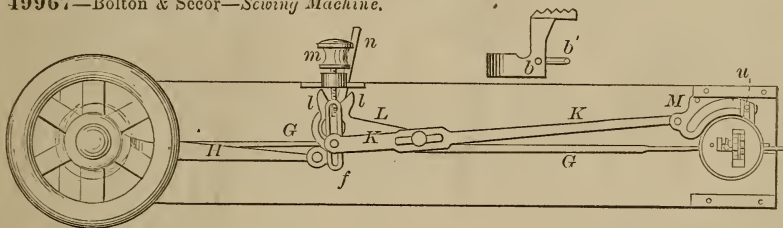
49963—L. M. Batty—Harvesting Machine.



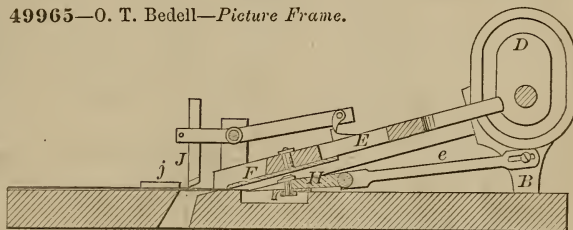
49963—Continued.



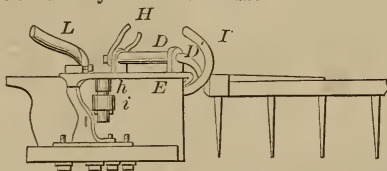
49967—Bolton & Secor—Sewing Machine.



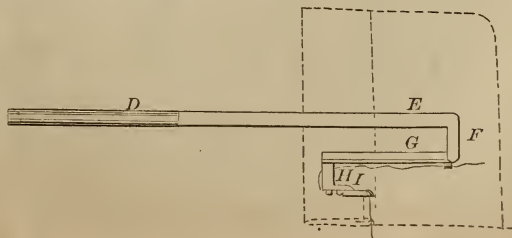
49965—O. T. Bedell—Picture Frame.



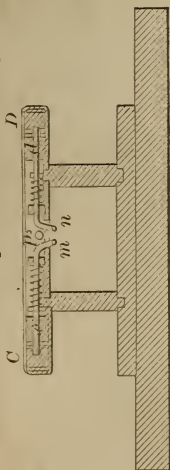
49964—L. M. Batty—Harvester Rake.



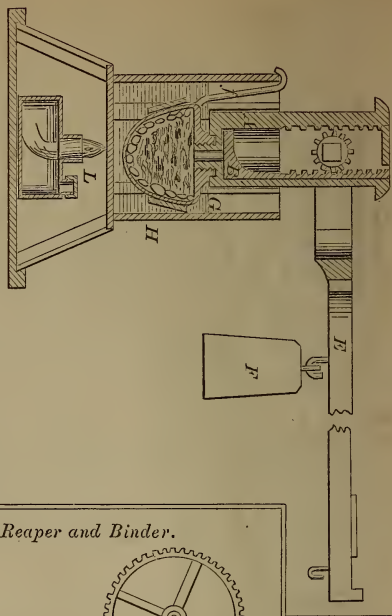
49968—J. W. Brady—Sewing Machine.



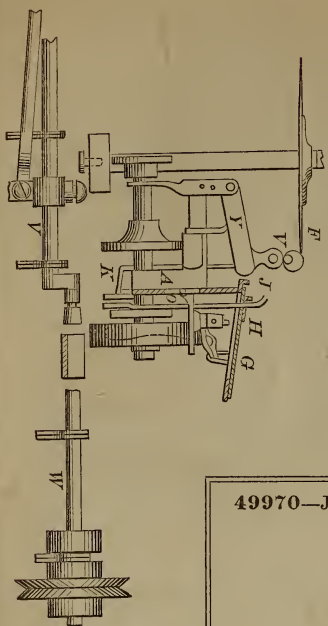
49966—F. W. Bishop—Hind Board to Wagon.



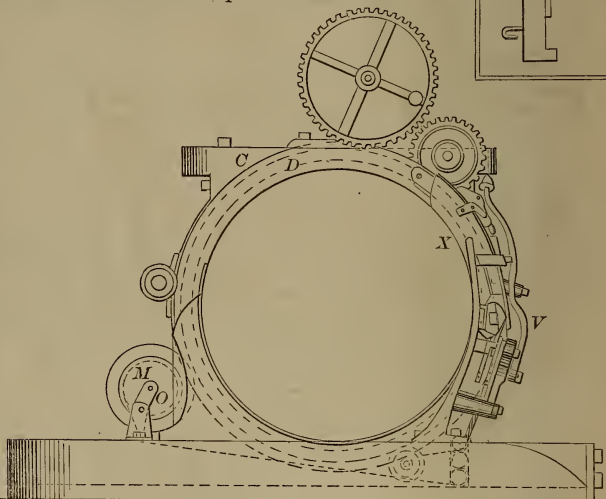
49969—F. C. Brown—Dental Rubber Packing.



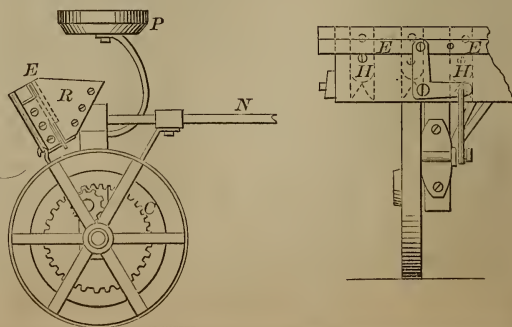
49971—H. Boardman—Cork Machine.



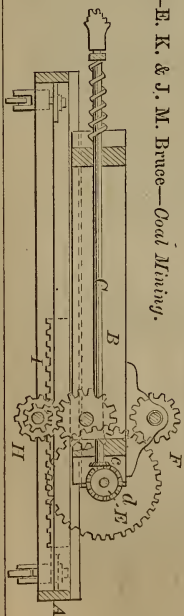
49970—J. Behel—Reaper and Binder.



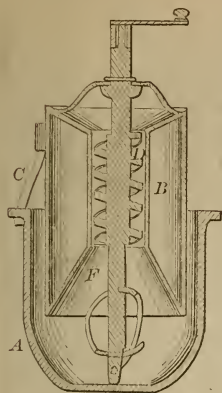
49973—A. Bugbee—Sowing Plaster.



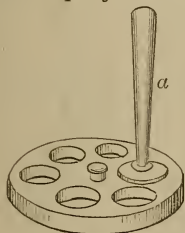
49972—E. K. & J. M. Bruce—Coal Mining.



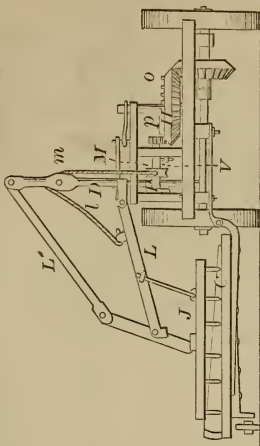
49975—W. H. Butler—
Amalgamator.



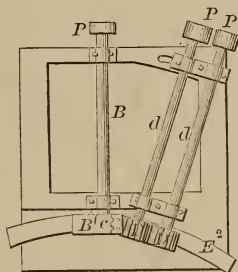
49978—A. S. Clackner—
Watch Spring Barrel.



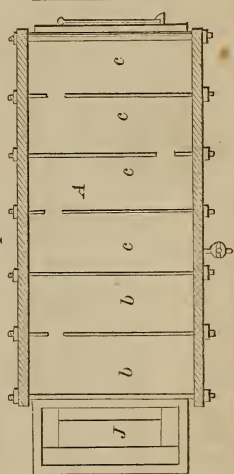
49976—W. J. & R. Case—*Harvester Rake.*



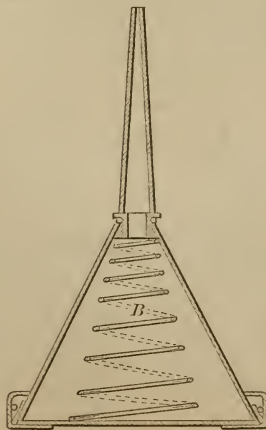
49981—J. Close—*Planing Machine.*



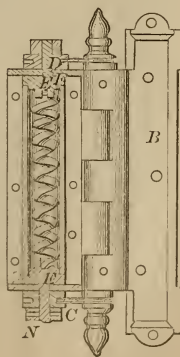
49974—R. Bullard—*Evaporator.*



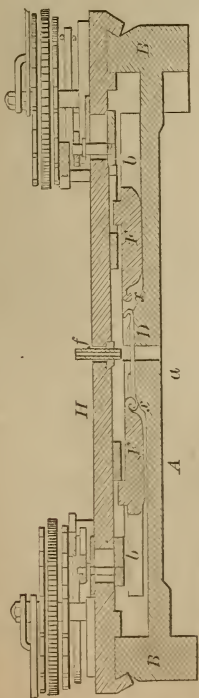
49979—B. Clark—*Oil Can.*

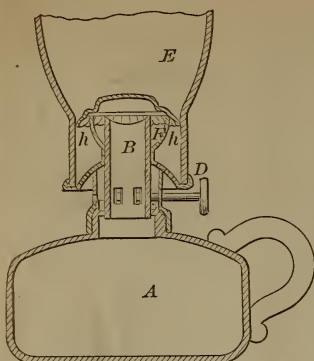
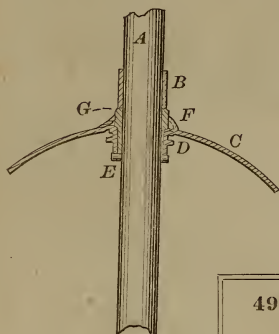
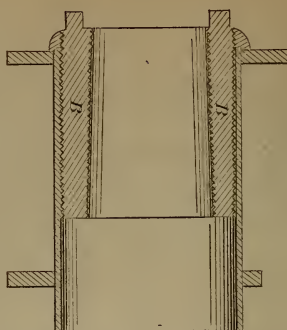
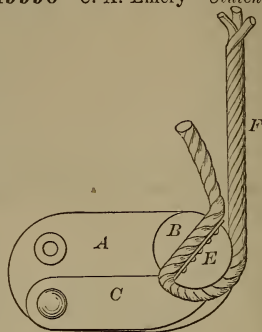
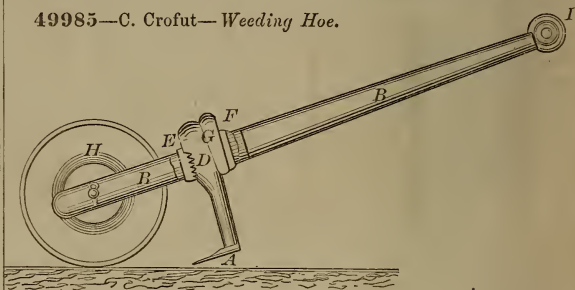
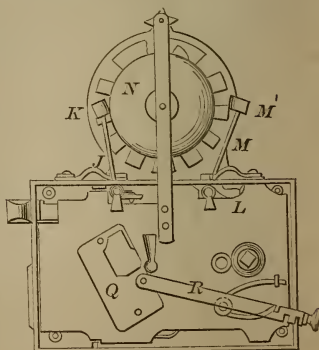
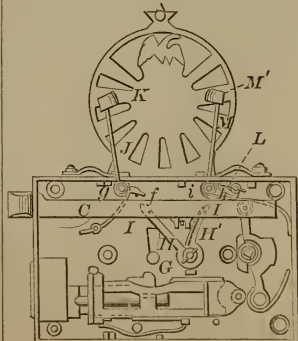


49982—Close & Buckman—
Hinge.

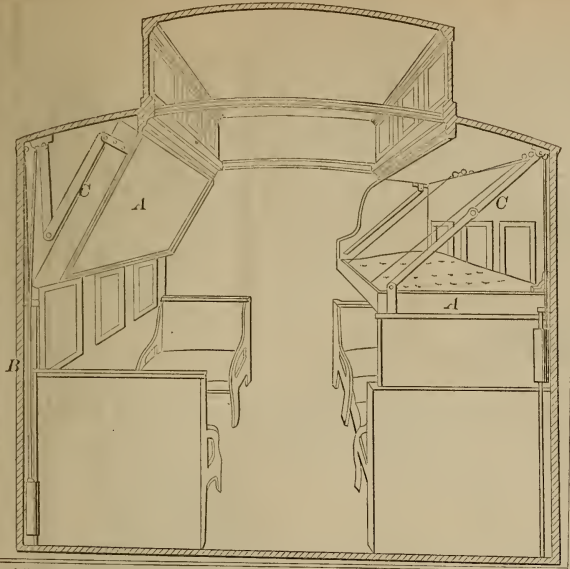


49980—W. W. Clay—*Knitting Machine.*

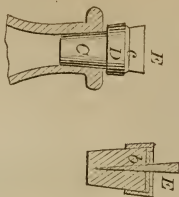


49984—M. H. Collins—*Lamp.*49986—W. Damerel—*Umbrella.*49988—J. Eaton—*Spinning Machine.*49987—G. W. Durall—*Boiler Tube Ferrule.*49990—C. A. Emery—*Clutch.*49989—G. W. Edge—*Clay Retort.*49985—C. Crofut—*Weeding Hoe.*49991—J. Euteneuer—*Lock.*

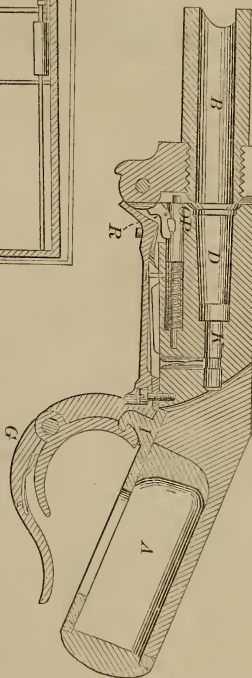
49992—Field & Pullman—*Sleeping Car.*



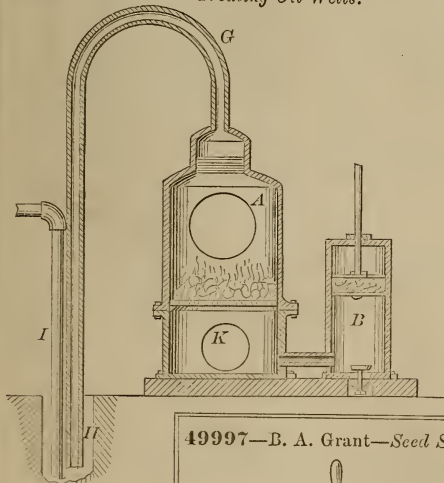
49996—C. Goldswait—*Bottle Stopper.*



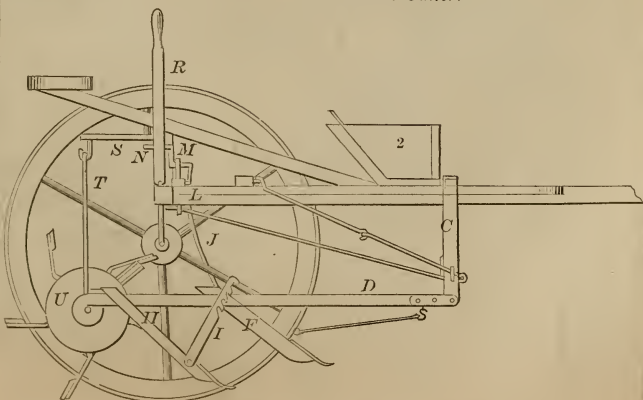
49994—G. P. & G. F. Foster—*Fire Arm.*



49995—J. Fraser—*Treating Oil Wells.*



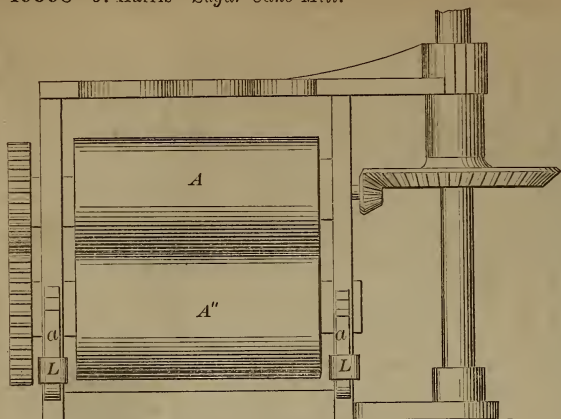
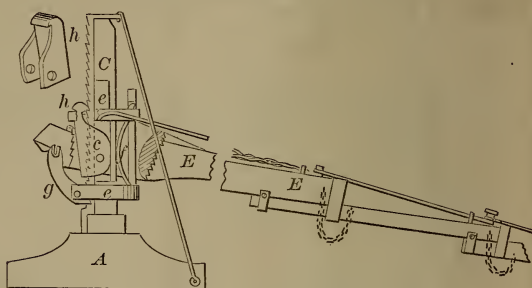
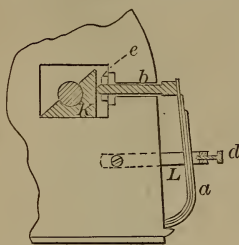
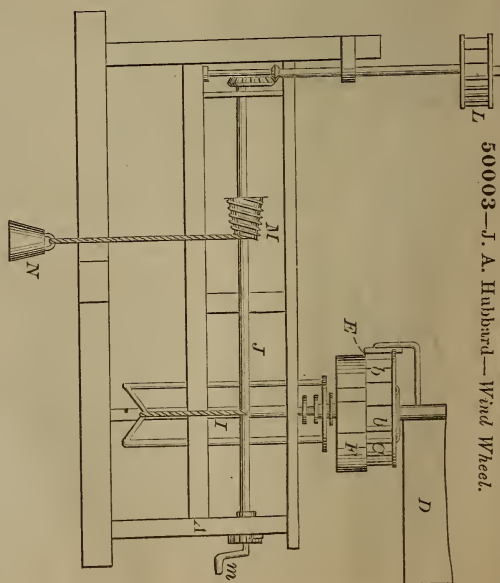
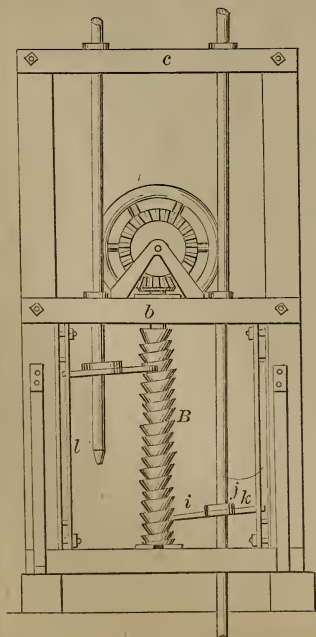
49997—B. A. Grant—*Seed Sower and Stalk Cutter.*



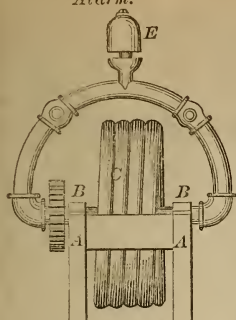
49993—

J. G. Floyd—*Jump Chimney.*

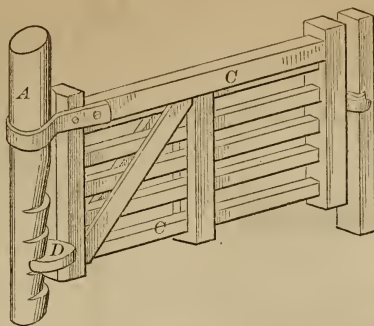


49998—J. Harris—*Sugar Cane Mill.*50002—W. H. Horton—*Chimney Cap.*49999—W. H. Hartman—*Jack.*50001—R. Hood—*Rock Drilling.*50003—J. A. Hubbard—*Wind Wheel.*

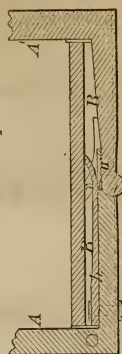
50004—G. Hull—*Fog Alarm.*



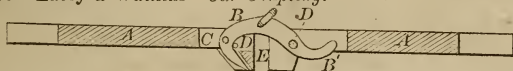
50005—G. O. Hutson—*Gate Post.*



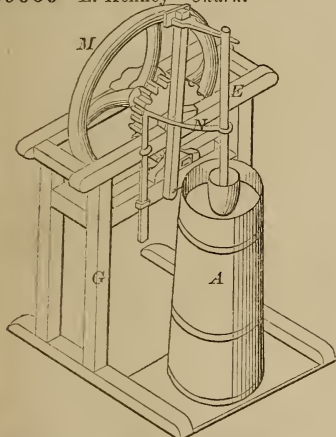
50007—A. Irion—*Stirrup.*



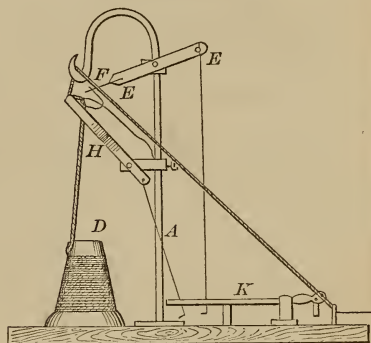
50010—Lacey & Watkins—*Car Coupling.*



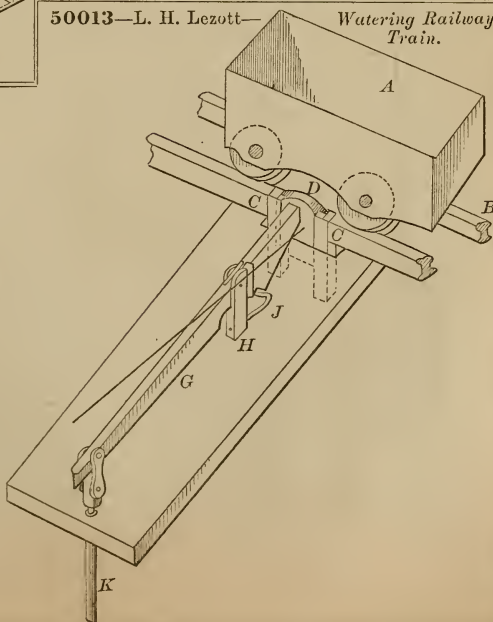
50009—E. Kenney—*Churn.*



50012—M. Lee—*Knitting Machine.*



50013—L. H. Lezott—*Watering Railway Train.*

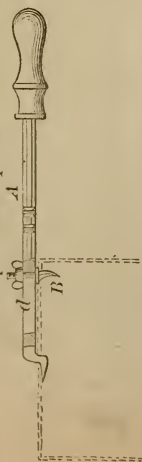


50008—

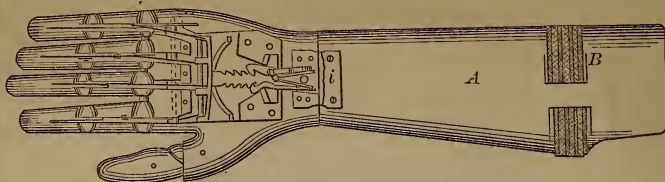
T. J. Kelleher—*Shoe Lacing.*



50011—S. D. Lecompte—*Can Opener.*



50014—Lindsay & Vance—Artificial Hand.



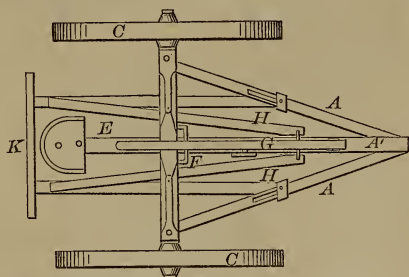
50016—L. F. A. A. Lynch—Weather Strip.



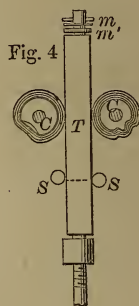
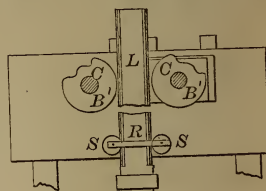
50017—D. F. Maine—Trace Buckle.



50018—A. J. Manny—Cultivator.



50020—J. M. May—Rock Drill.



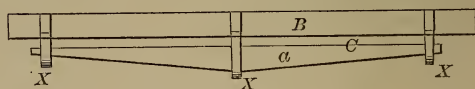
50019—C. F. Martine—Lamp.



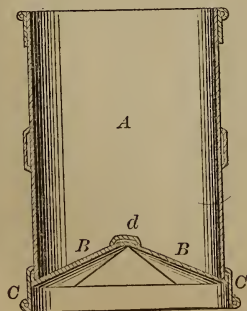
50021—J. S. McCurdy—Screw Driver.



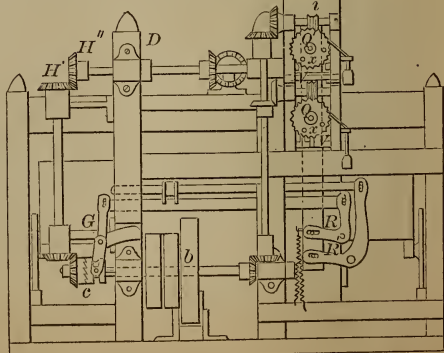
50023—Morgan & Bartlett—Grate Bar Supporter.



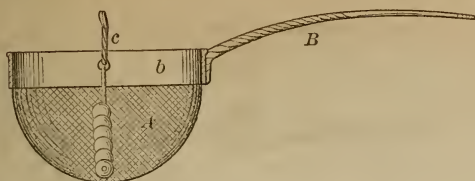
50022—H. W. Millar—Can.



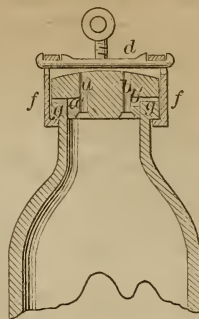
50024—H. L. Moulton—Spinning Jack.



50025—J. Myers, Jr.—*Flour Sifter.*



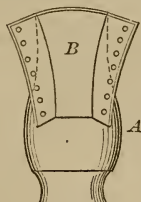
50027—P. Pallissard—*Fruit Jar.*



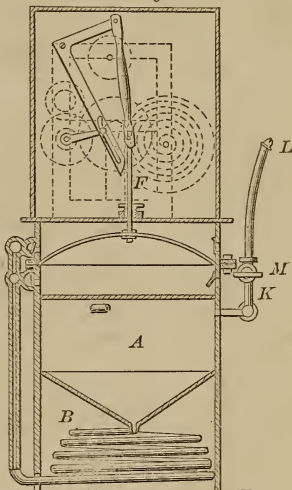
50026—E. Newhall—*Boot Heel.*



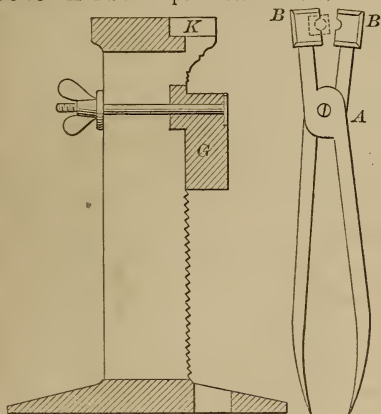
50030—T. Powell—*Gaiter Boot.*



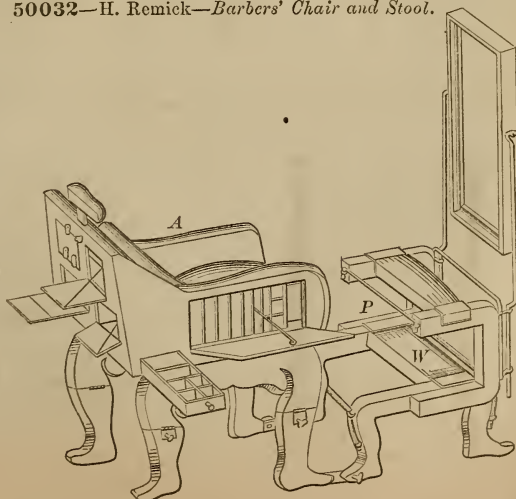
50029—Pond & Richardson—*Carburetted Air.*



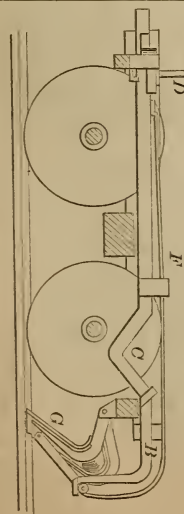
50028—H. M. Phillips—*Bolt Machine.*



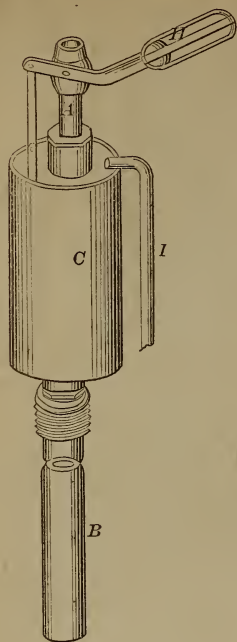
50032—H. Remick—*Barbers' Chair and Stool.*



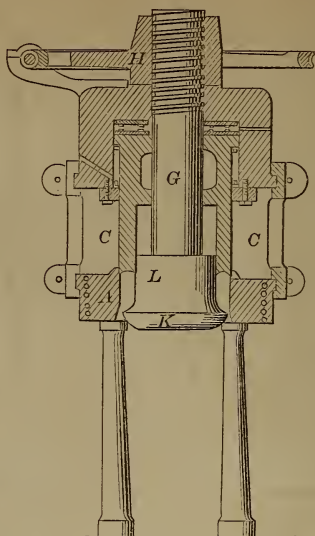
50031—E. A. Putnam—*Snow Plow.*



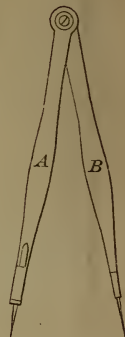
50033—G. A. Riedel—*Feed Water Apparatus.*



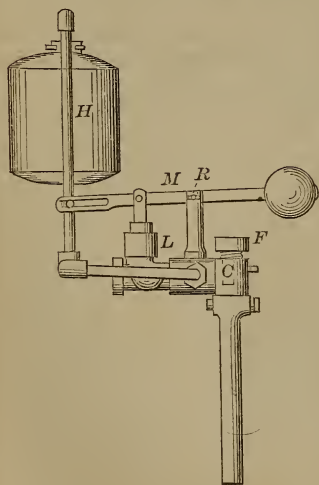
50036—J. Robertson—*Sheet Lead.*



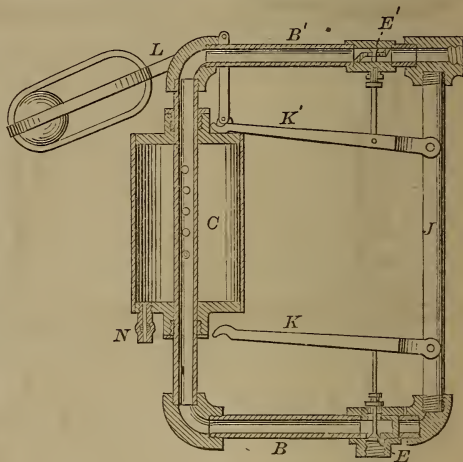
50037—P. Roessler—*Compass.*



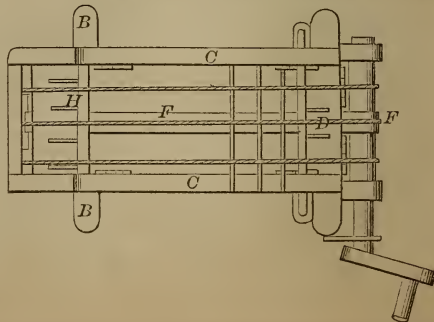
50034—G. A. Riedel—*Boiler Feeder.*



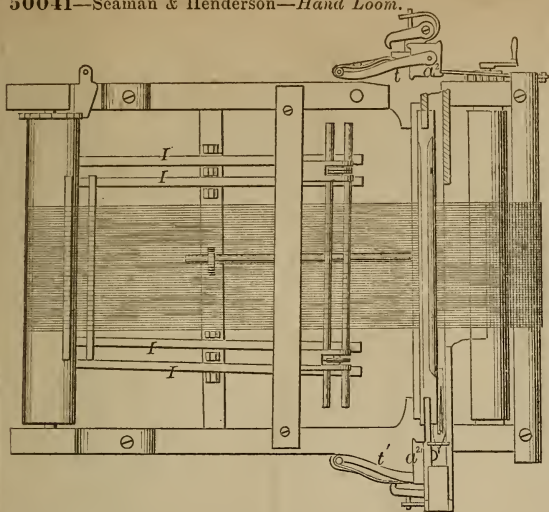
50035—G. A. Riedel—*Boiler Feeder.*



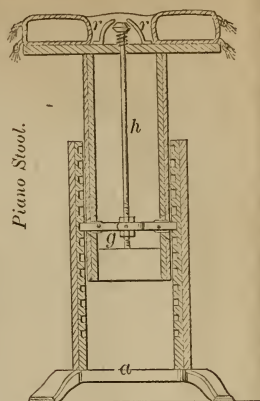
50040—C. W. Rudgers—*Fleece Folder.*



50041—Seaman & Henderson—*Hand Loom.*



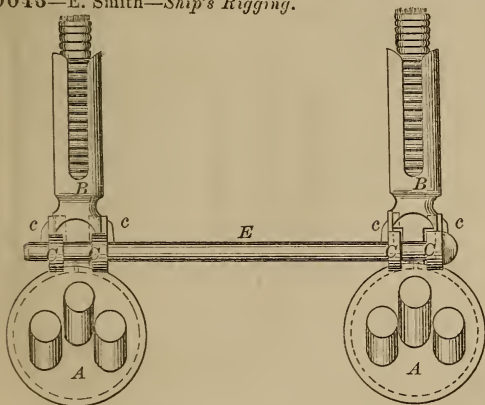
50042—G. A. Sherlock—



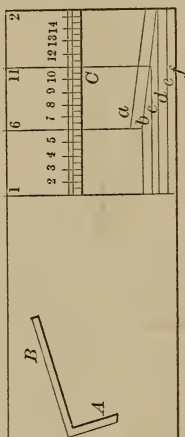
50045—D. Y. Smith—*Auger Handle.*



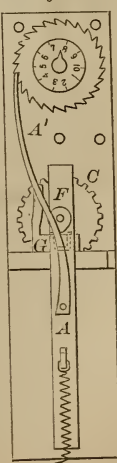
50046—E. Smith—*Ship's Rigging.*



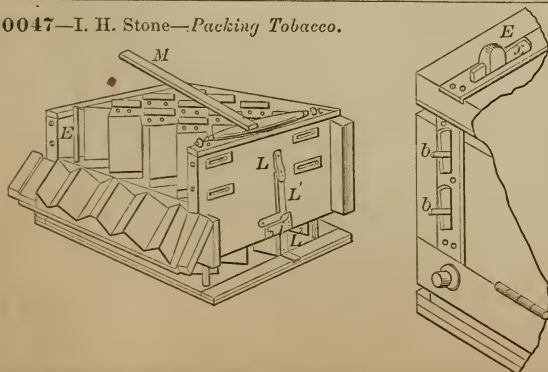
50043—N. Sylvester—*Boot and Shoe Pattern.*

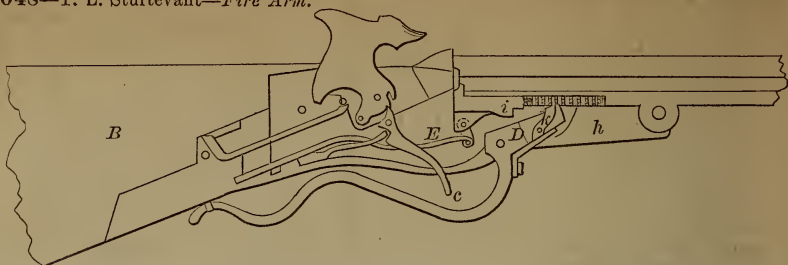
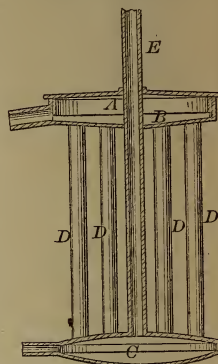
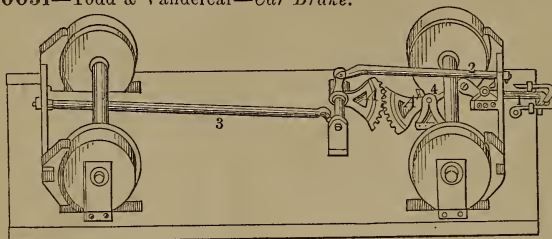
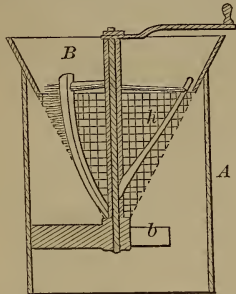
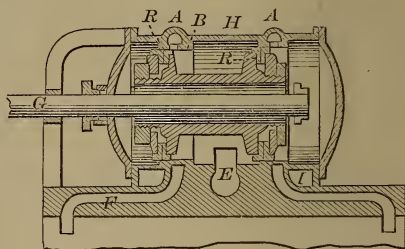
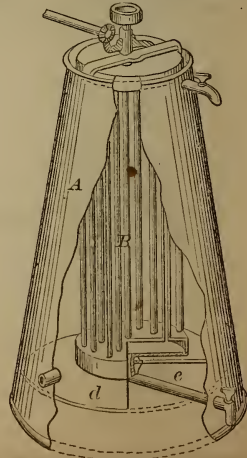
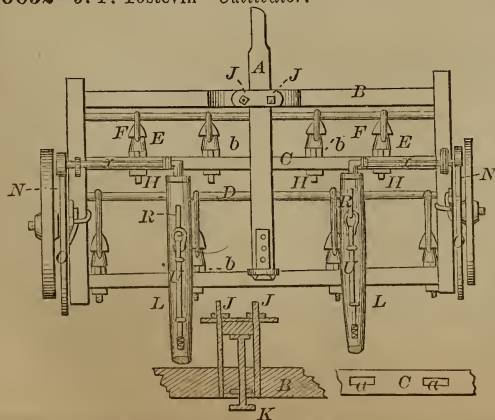


50044—A. & G. Simpson—*Spinning Jack.*

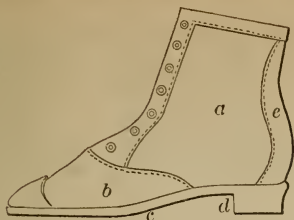


50047—L. H. Stone—*Packing Tobacco.*

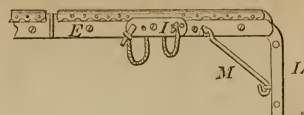


50048—T. L. Sturtevant—*Fire Arm.*50050—D. N. Thayer—*Snow Shovel.*50055—F. Uhrland—*Beer Cooler.*50051—Todd & Vandercar—*Car Brake.*50054—L. W. Turner—*Flour Sifter.*50053—C. W. Tremain—*Steam Valve.*50056—G. Waters—*Beer Cooler.*50052—J. P. Tostevin—*Cultivator.*

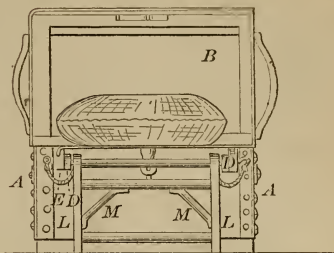
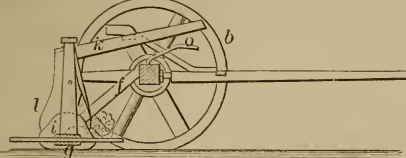
50057—F. Weed—Shoe.



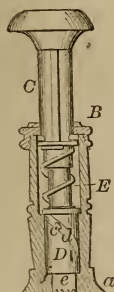
50059—J. H. Whitfield—Trunk.



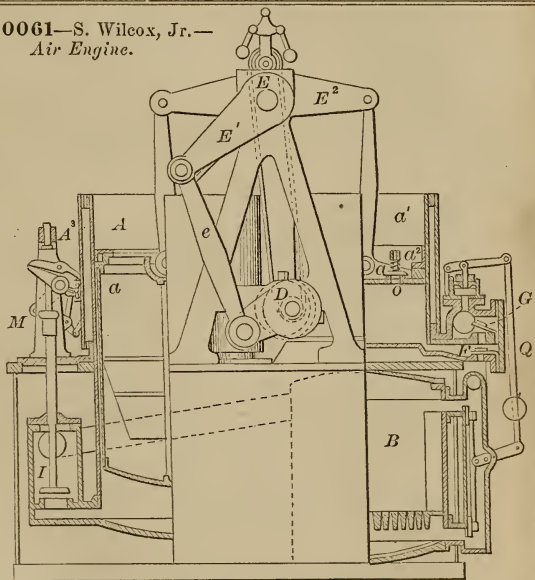
50060—H. C. Whitney—Horse Rake.



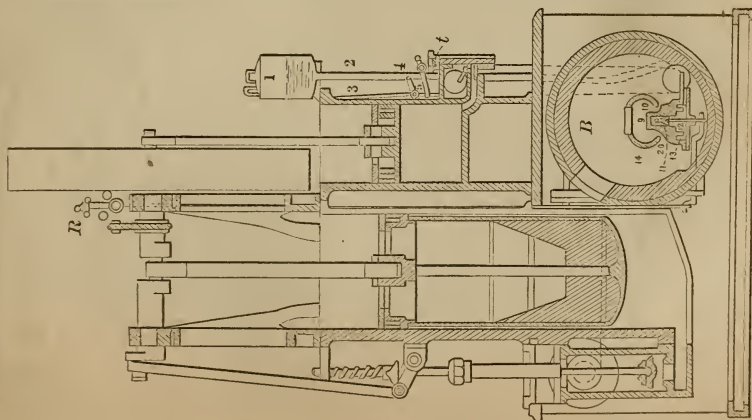
50058—C. S. Wells—
Cancelling Stamp.

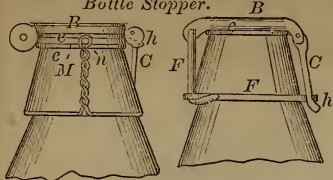
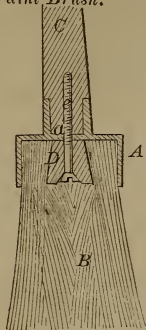
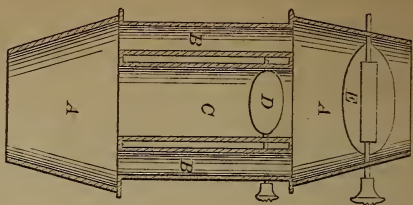


50061—S. Wilcox, Jr.—
Air Engine.

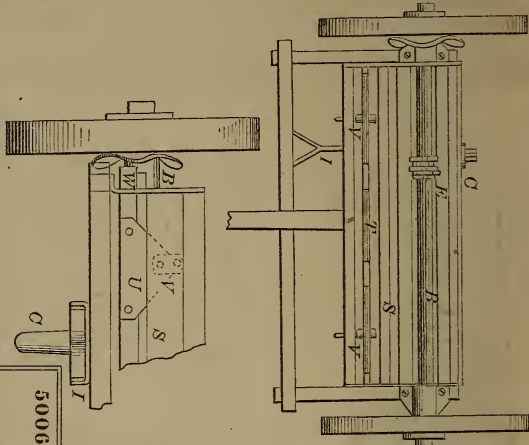


50062—S. Wilcox, Jr.—Hot Air Engine.

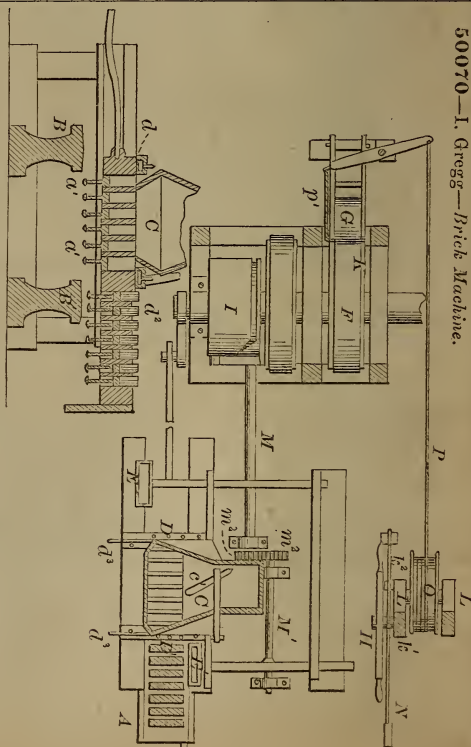


50063—J. A. & G. E. Woodbury—
Bottle Stopper.50067—L. P. Faught—
Paint Brush.50069—N. F. Goodrich—
Store Pige.

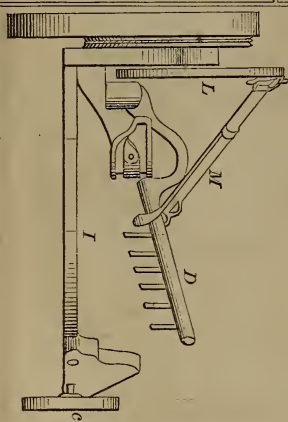
50065—A. Bugbee—Seed Planter.



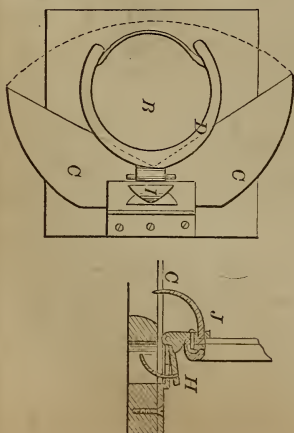
50070—I. Gregg—Brick Machine.



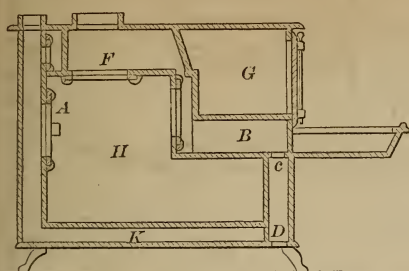
50066—W. J. Cochrane—Harvester Rake.



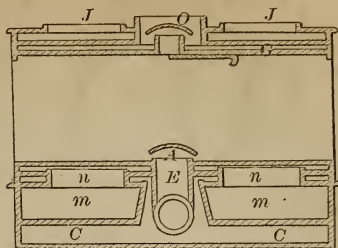
50064—E. Woodruff—Water Closet.



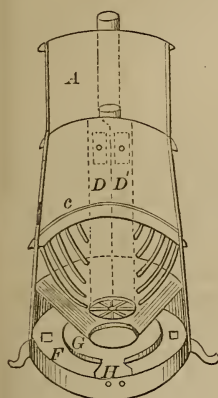
50071—M. L. Horton—Cook Stove.



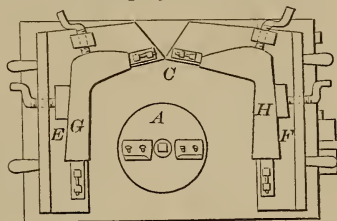
50072—M. L. Horton—Cook Stove.



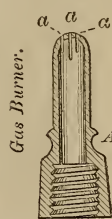
50073—Z. Hunt—Coal Stove.



50074—J. H. Jellison—Shaping Crimping Forms.



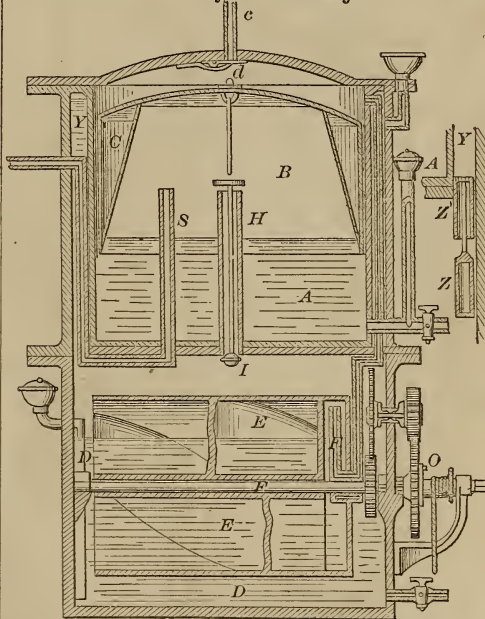
50075—H. L. McAvoy—



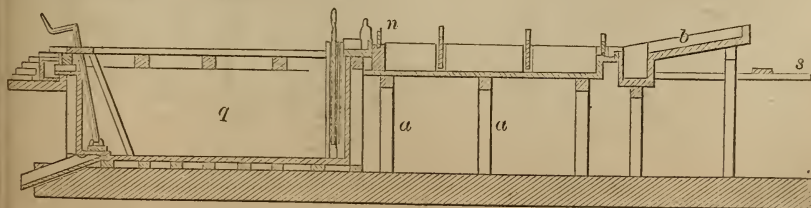
50078—L. C. Percival—Rocking Horse.

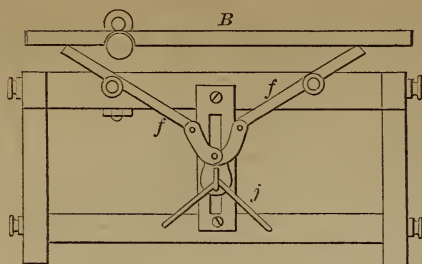
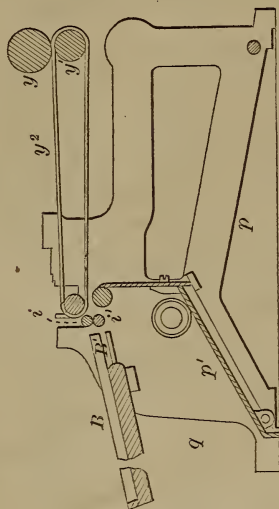
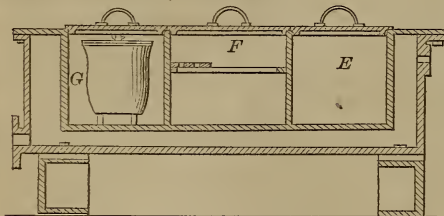
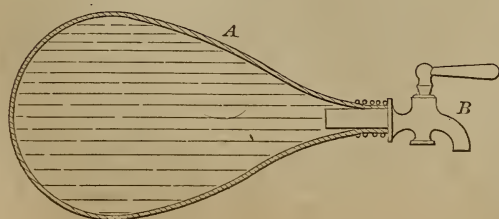
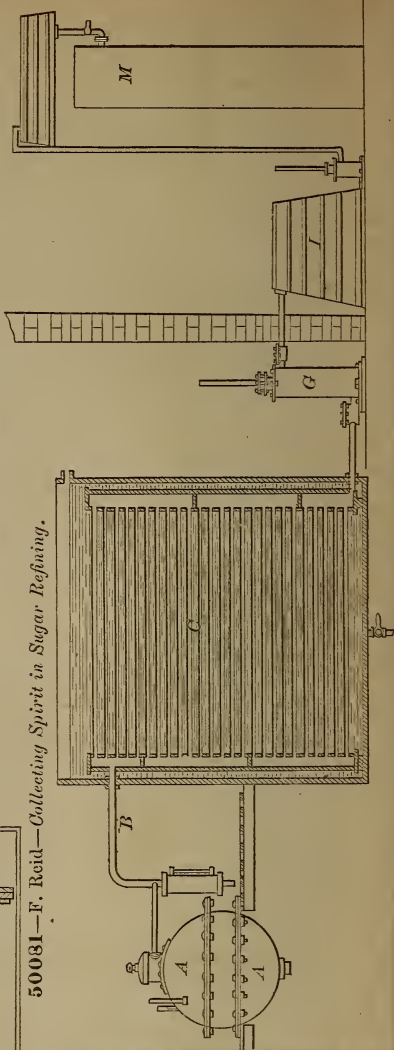
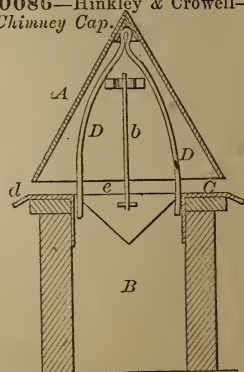


50076—H. L. McAvoy—Carburetted Air.

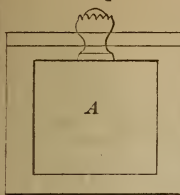


50077—T. Moore—Purifying Kaolin, &c.

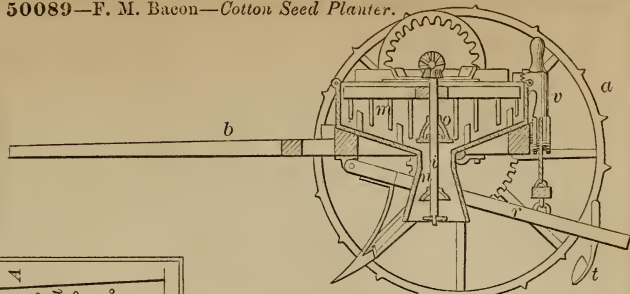


50079—D. H. Priest—*Leather Roller.*50080—F. Durand—*Cotton Gin.*50083—J. J. Revy—*Gun Cotton.*50085—T. Byrne—*Preserving Beer.*50081—F. Reid—*Collecting Spirit in Sugar Refining.*50086—Hinkley & Crowell—*Chimney Cap.*

50087—J. Allen—*Lamp.*

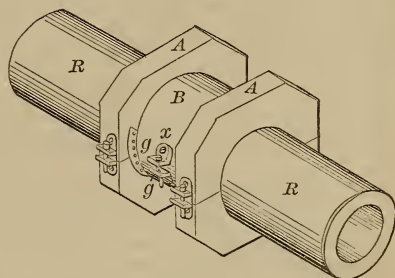
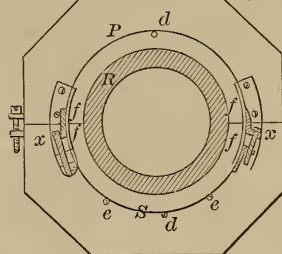


50089—F. M. Bacon—*Cotton Seed Planter.*

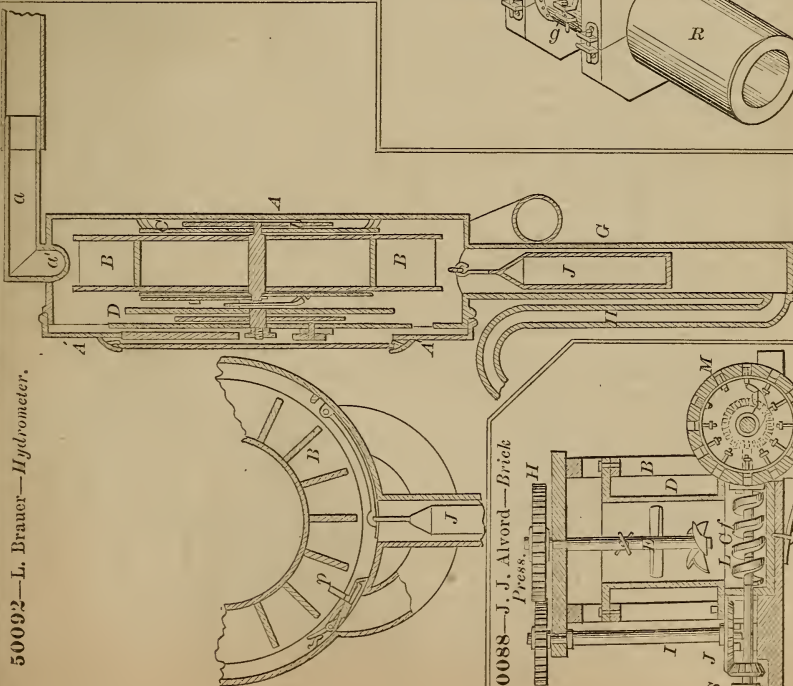
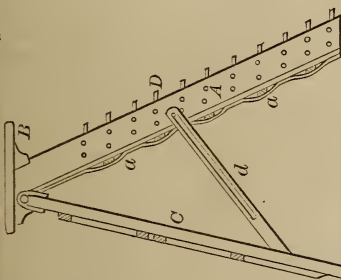
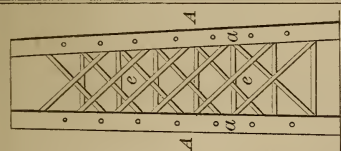


50090—P. Ball—

Pipe Joint.

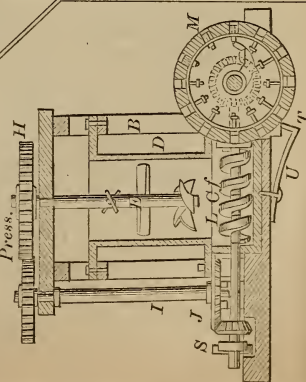


50091—J. Barnett—*Step Ladder.*

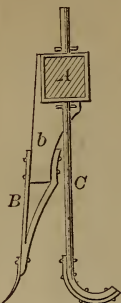


50092—L. Brauer—*Hydrometer.*

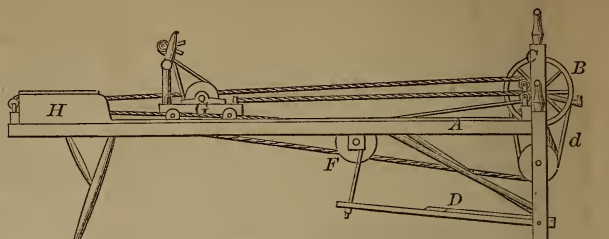
50088—J. J. Alvord—*Brick Press.*



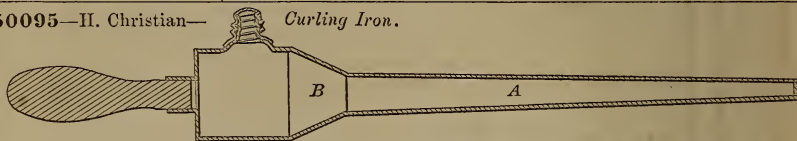
50093—
W. J. Burton—
Cultivator.



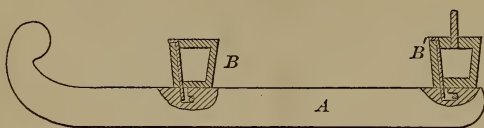
50094—J. Byrkit—Hand Spinning Machine.



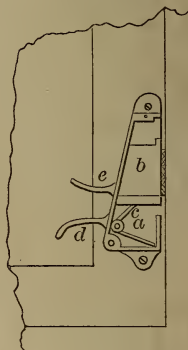
50095—H. Christian— *Curling Iron.*



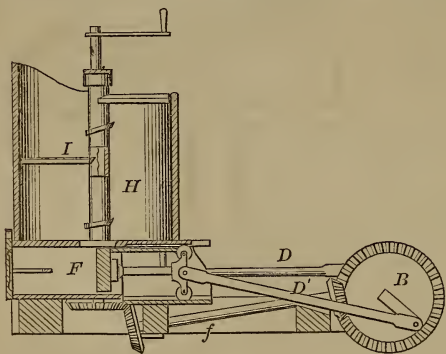
50096—S. H. Clark—Skate.



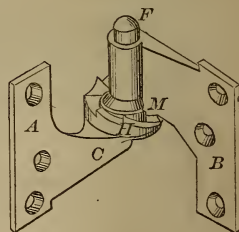
50098—W. Conner—Sash
Supporter.



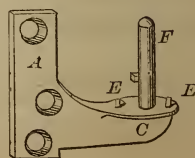
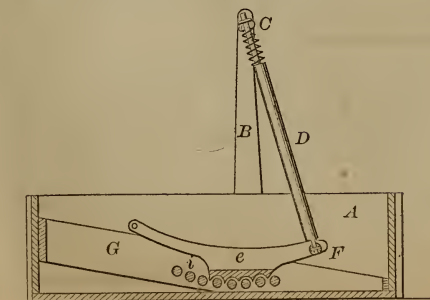
50097—Collins, Evans & Smedley—Drain Tile.



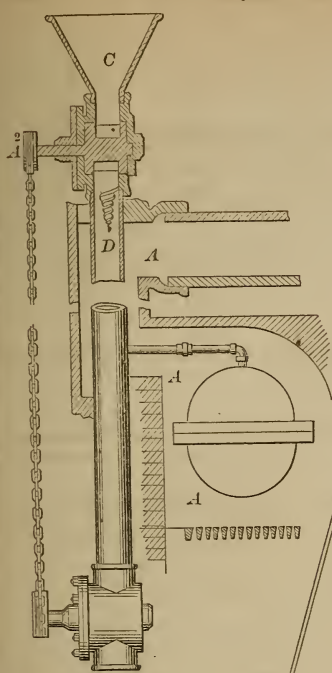
50099—D. G. Coppin—Shutter
Hinge.



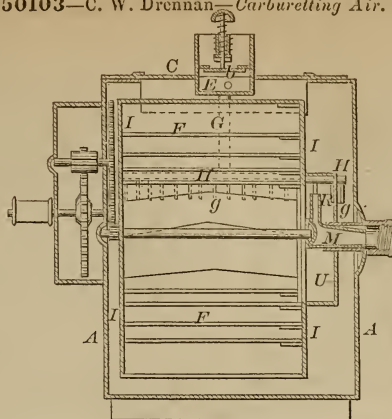
50100—J. Davenport—Washing Machine.



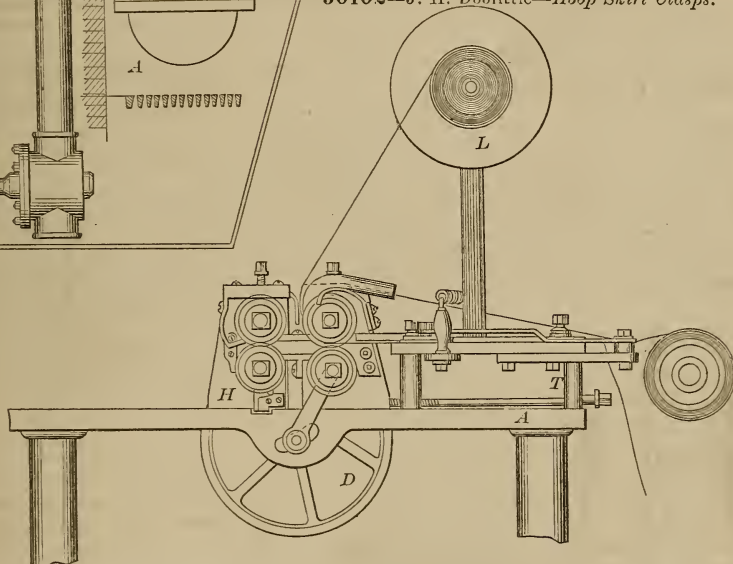
50101—A. G. Day—*Amalgamator.*



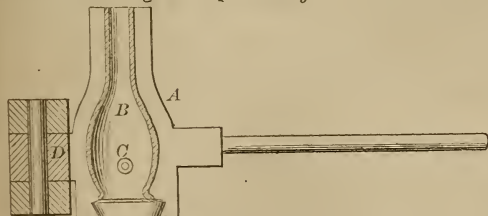
50103—C. W. Drennan—*Carburetted Air.*



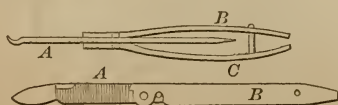
50102—J. H. Doolittle—*Hoop Skirt Clasps.*



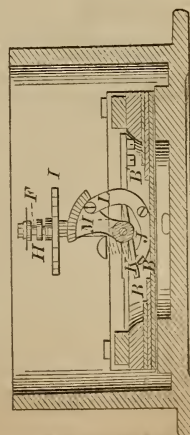
50105—E. Eltinge—*Lamp Chimneys.*



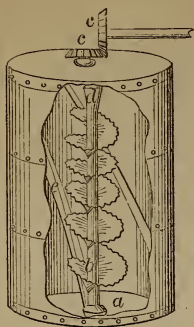
50106—B. C. English—*Knife, Tweezers, &c.*



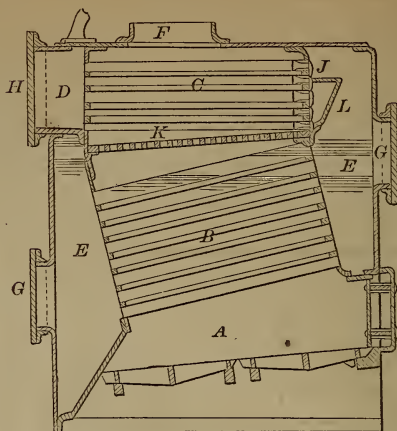
50107—H. W. Evans—*Steam Gauge.*



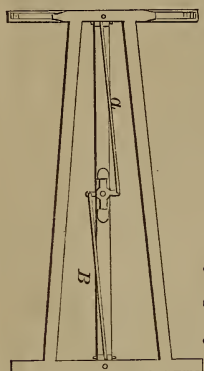
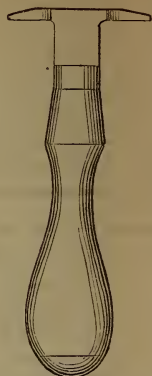
50108—J. Evans—
Treating Fibrous Plants.



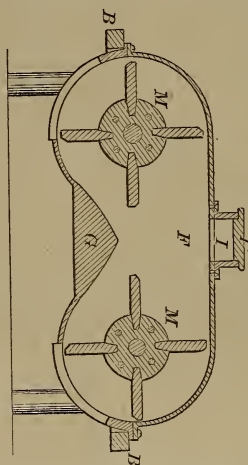
50109—E. Faron—Steam Generator.



50112—E. C. Fuller—
Kettle Scraper.



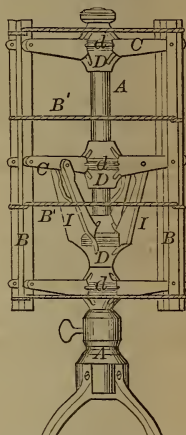
50114—C. C. Gleason—Carriage Spring.



50115—N. Goodwin, Jr.—Quart Mill.

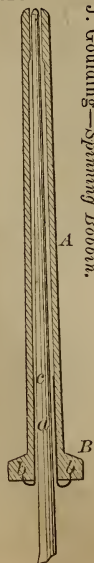
50113—C. Gardner—

Fruit Drying.

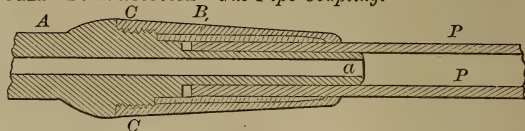


50116—

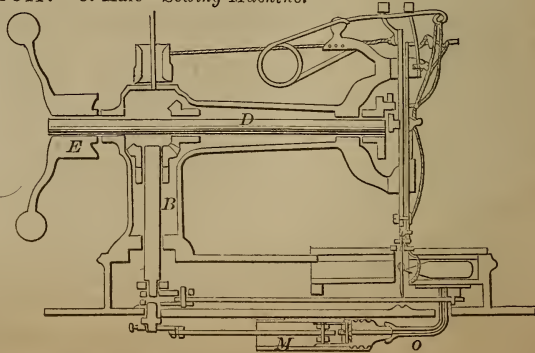
J. Goulding—Spinning Bobbin.



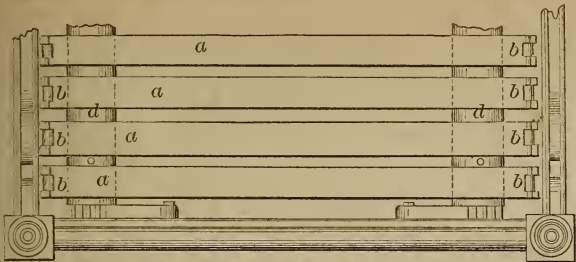
50111—D. L. Freeborn—Gas Pipe Coupling.



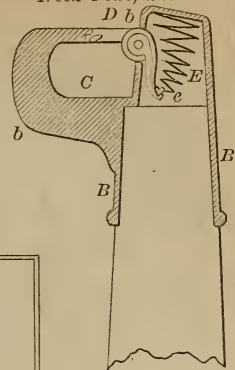
50117—C. Hale—Sewing Machine.



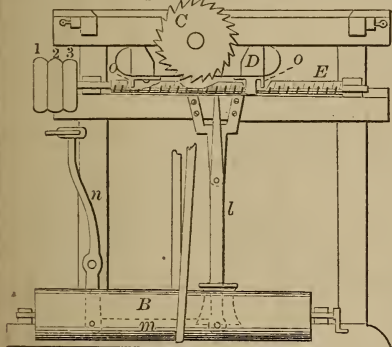
50118—R. L. Hall—*Bed Bottom.*



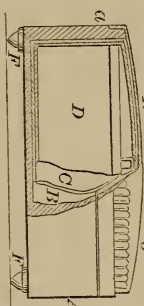
50124—C. C. Holman—*Neck Yoke, &c.*



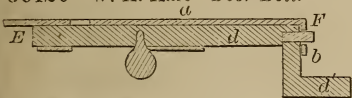
50119—T. Harper—*Sawing Machine.*



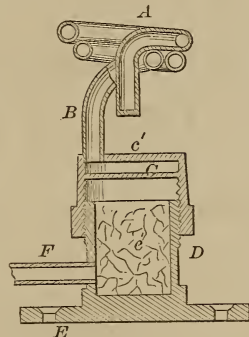
50123—Hock & Zitz—*Foot Warmer.*



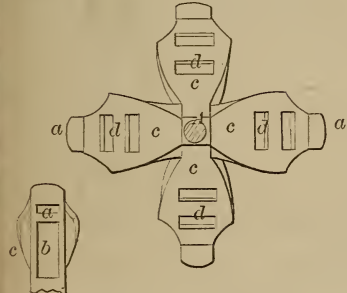
50120—W. H. Hart—*Door Bolt.*



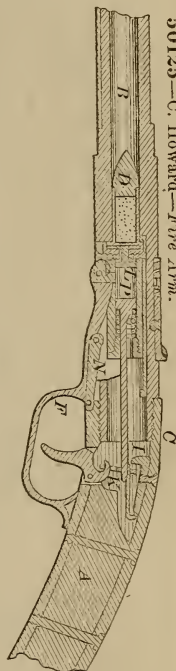
50121—J. P. Hayes—*Petroleum Burner.*



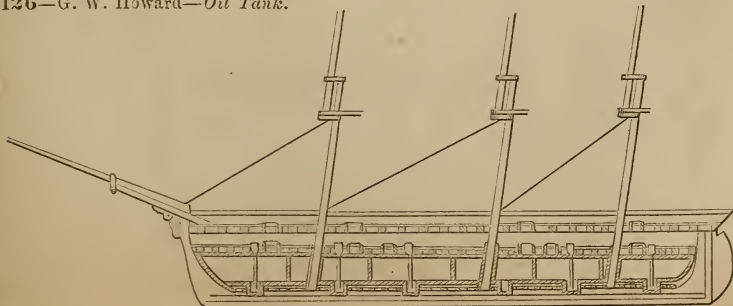
50122—J. Hobbs—*Churn Dasher.*

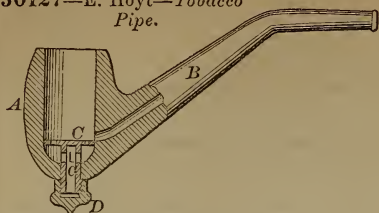
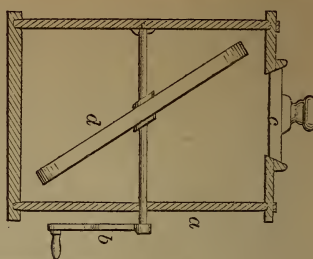
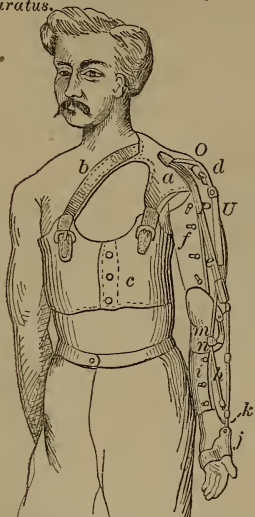
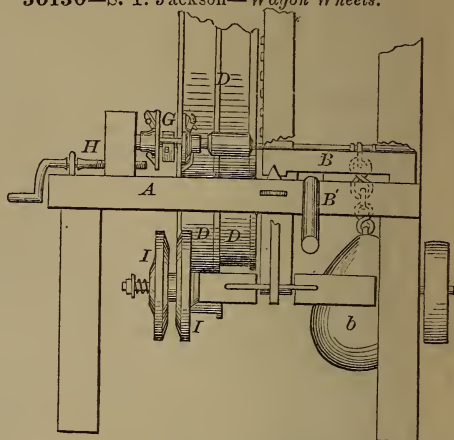
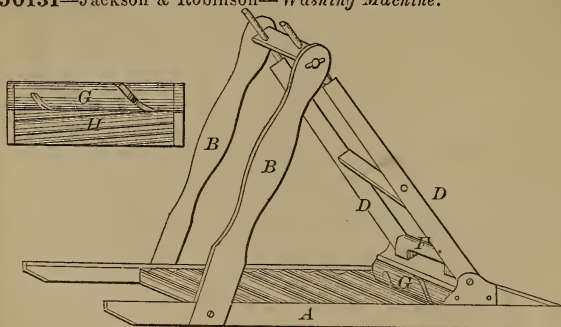
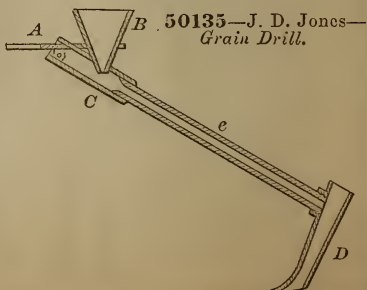
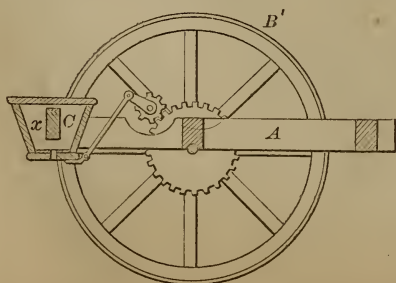


50125—C. Howard—*Fire Arm.*

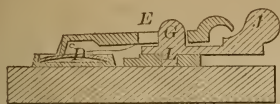


50126—G. W. Howard—*Oil Tank.*

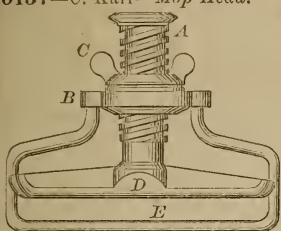


50127—E. Hoyt—*Tobacco Pipe.*50128—E. D. Hudson—*Surgical Apparatus.*50129—W. L. Inlay—*Churn.*50130—S. T. Jackson—*Wagon Wheels.*50131—Jackson & Robinson—*Washing Machine.*50134—J. D. Jones—*Grain Drill.*50133—W. Johnson—*Damper.*

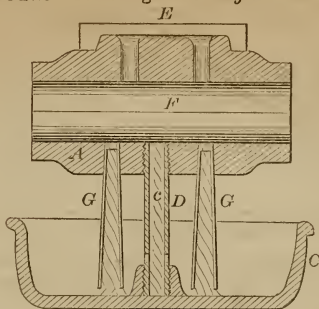
50136—O. S. Judd—*Sash Fastening.*



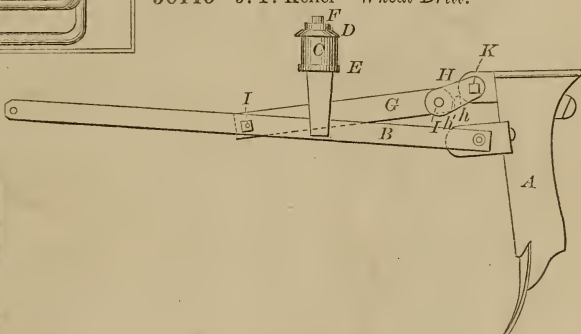
50137—C. Karr—*Mop Head.*



50143—J. F. Light—*Oiling Journal Box.*



50140—J. F. Keller—*Wheat Drill.*

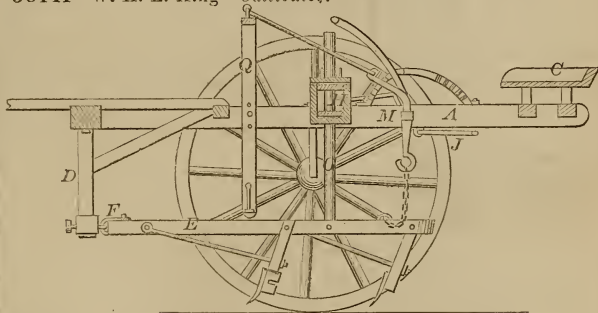


50142—

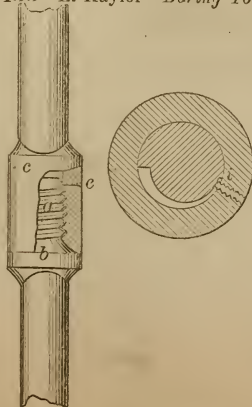
C. W. Kinne—*Sinking Well Tubes.*



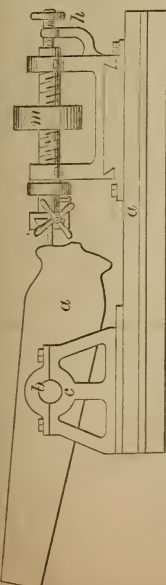
50141—W. H. L. King—*Cultivator.*



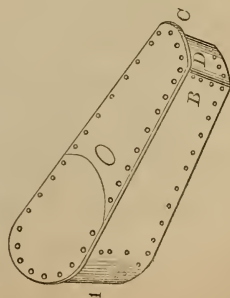
50138—E. Kaylor—*Boring Tool.*



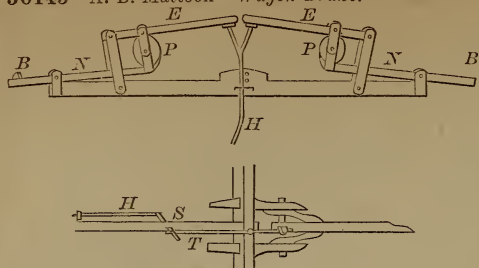
50139—E. Kaylor—*Gun's Cascade.*



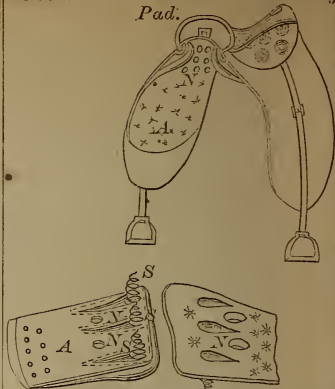
50144—M. R. Margerum—*Coffin.*



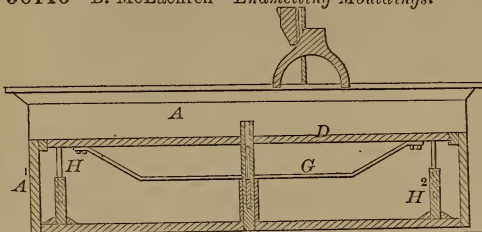
50145—A. B. Mattoon—Wagon Brake.



50147—J. P. McLean—Ventilating Pad.

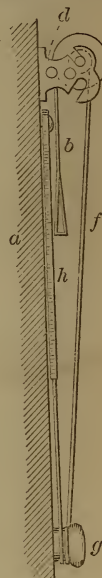


50146—B. McEachren—Enamelling Mouldings.

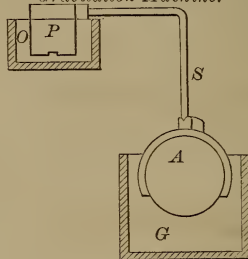


50149—P. Miles—

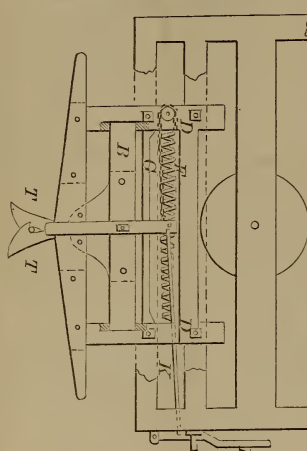
Curtain Fixture.



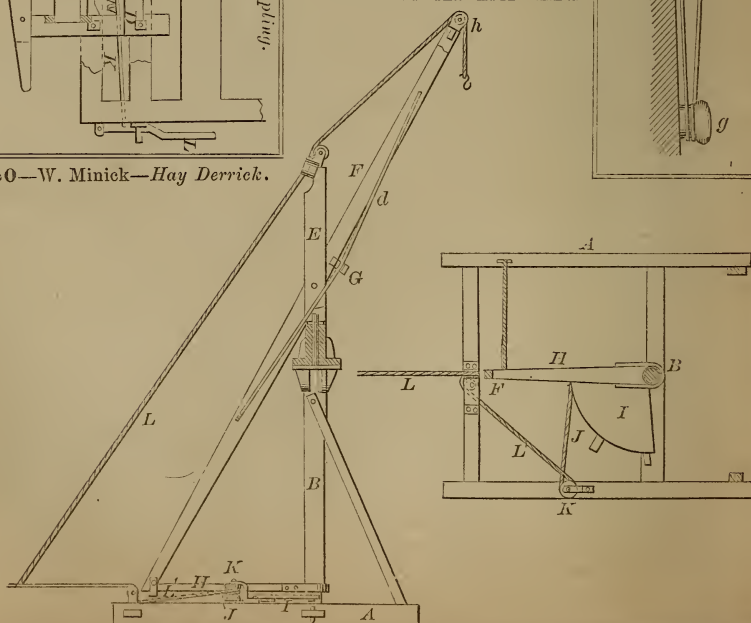
50151—C. Monson—Pressure and Gravitation Machine.

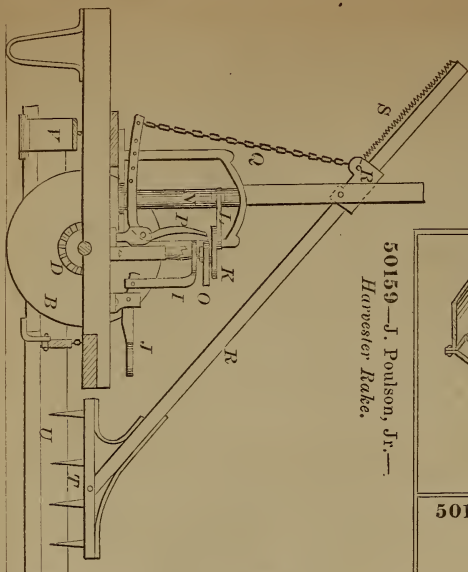


50148—Met and Fry—Car Coupling.

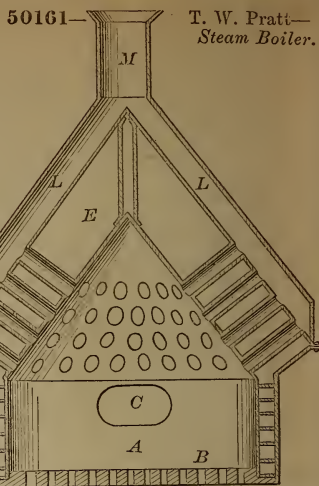


50150—W. Minick—Hay Derrick.



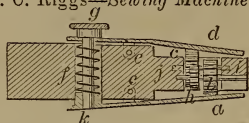


50159—J. Poulson, Jr.—
Harvester Reake.

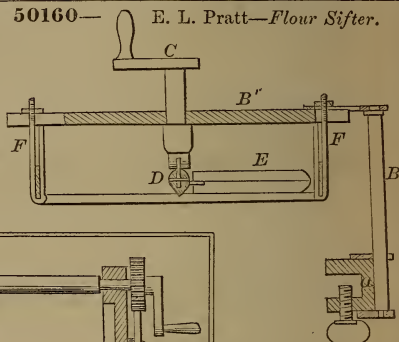


50161—T. W. Pratt—
Steam Boiler.

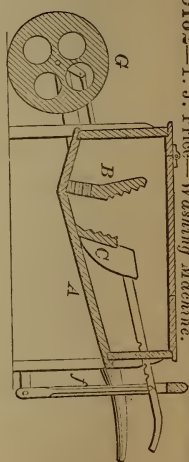
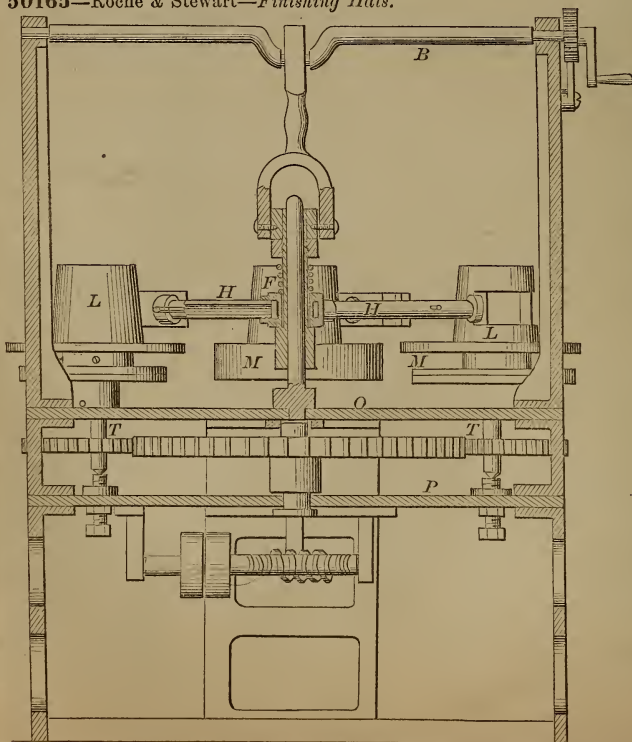
50164—L. C. Riggs—Sewing Machine.



50160—E. L. Pratt—Flour Sifter.

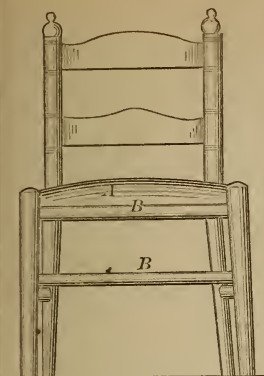


50165—Roche & Stewart—Finishing Hats.

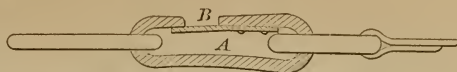


50162—T. J. Price—Washing Machine.

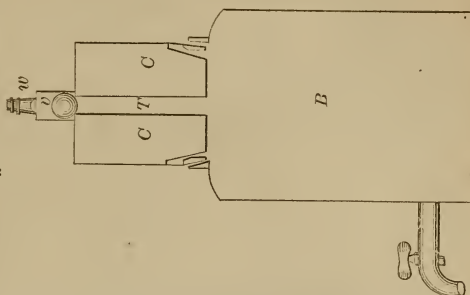
50166—C. Russell—*Chair Bottom.*



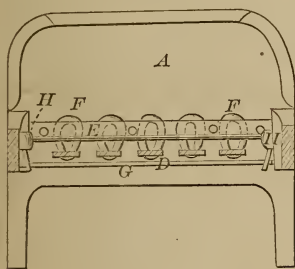
50167—C. W. Saladee—*Snap Link.*



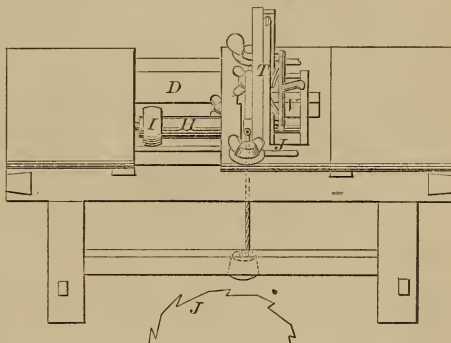
50169—E. K. Sargeant—*Alarm Coffee Boiler.*



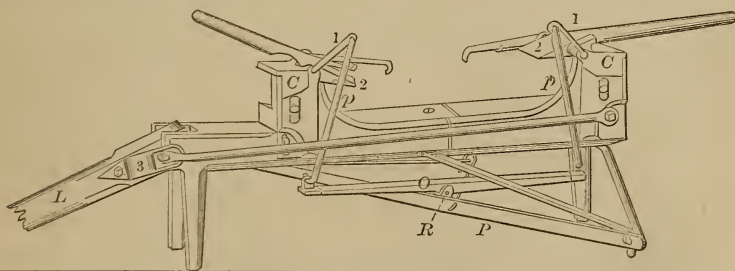
50168—R. S. Sanborn—*Bed Bottom.*



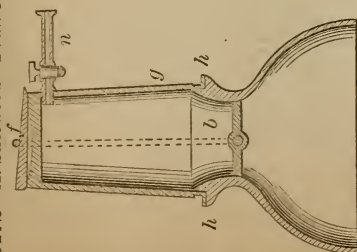
50170—Sayre & Shull—*Slate Frames.*



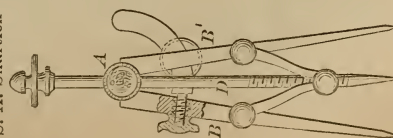
50171—M. Scott—*Tire Shrinking.*

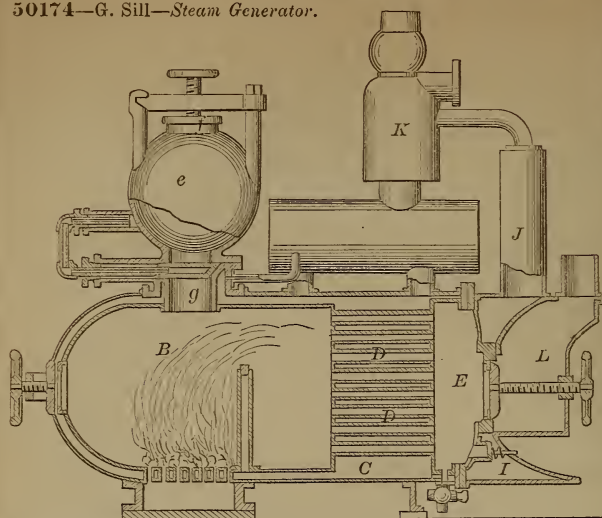
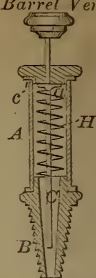
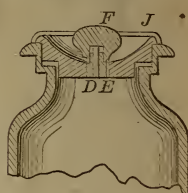
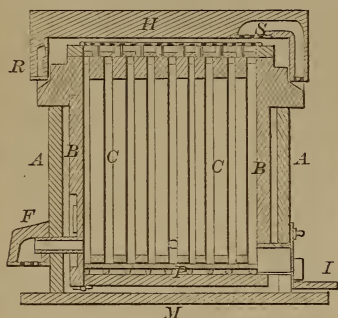
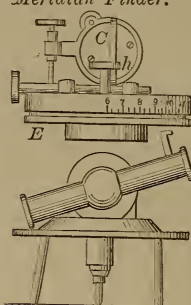
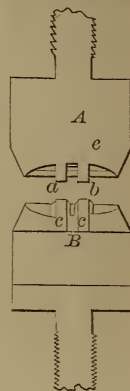
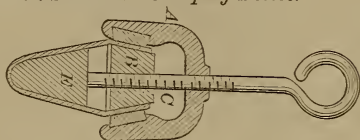
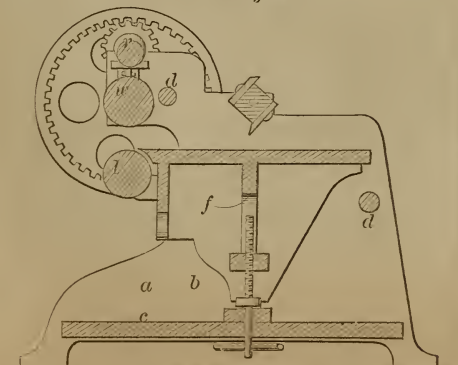
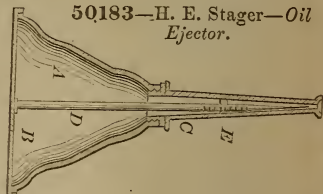


50172—A. Sherwood—*Fruit Jar.*

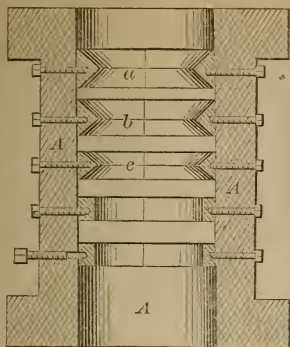


50173—S. A. Shurtleff—*Dividers.*

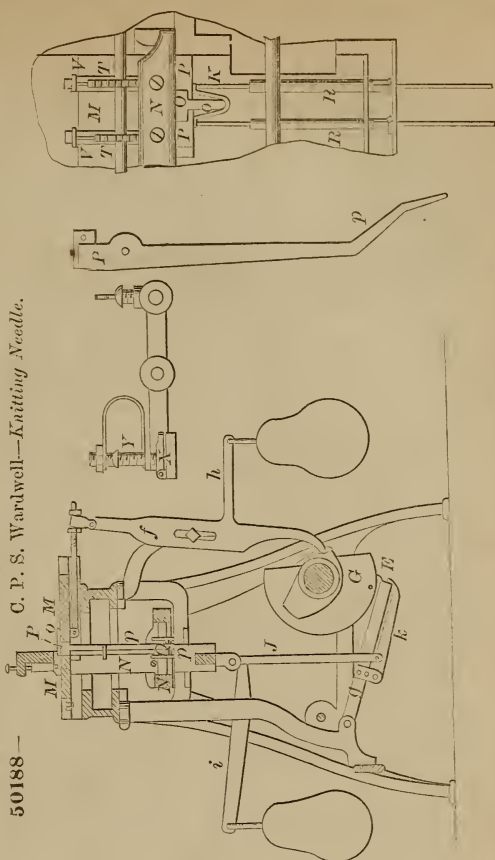


50174—G. Sill—*Steam Generator.*50176—T. Simmons—*Barrel Vent.*50181—J. J. Squire—*Fruit Jar.*50179—G. Spinney—*Beehive.*50182—W. Stackpole—*Meridian Finder.*50185—A. C. Sweetland—*Button Die.*50175—E. Simmons—*Clamping Device.*50178—H. B. Smith—*Planing Machine.*50183—H. E. Stager—*Oil Ejector.*50186—S. C. Taylor—*Artificial Denture.*

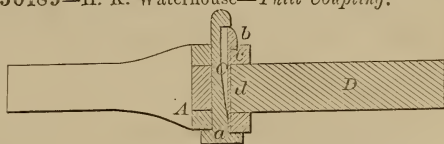
50187—R. C. Totten—*Grooved
Chilled Rolls.*



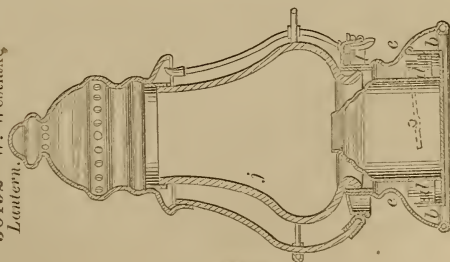
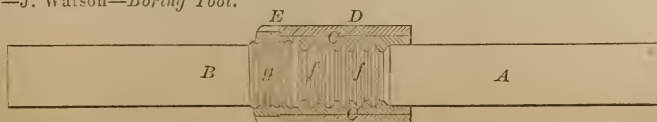
50188— C. P. S. Wardwell—Knitting Needle.

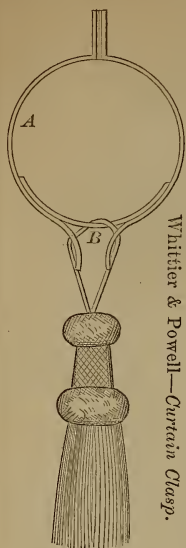


50189—H. K. Waterhouse—*Thill Coupling*.

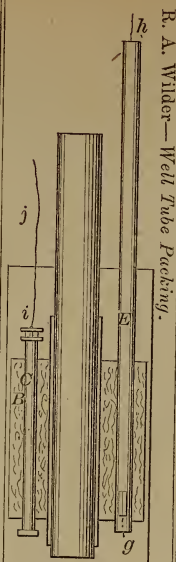
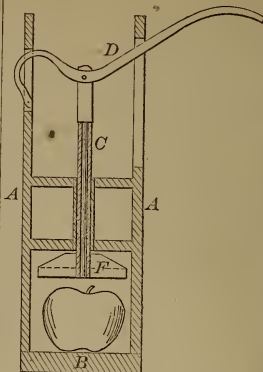
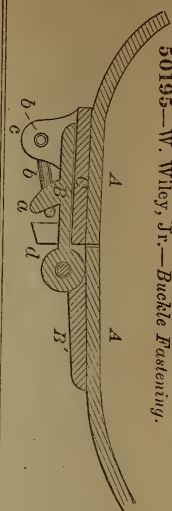
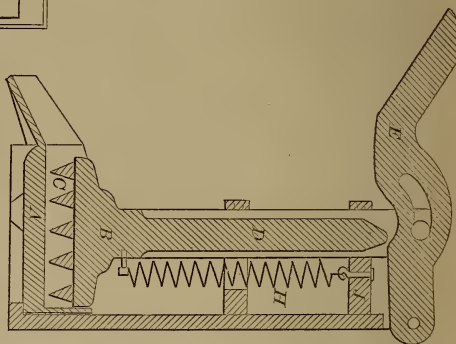
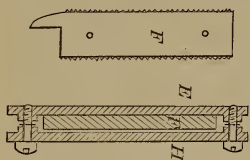
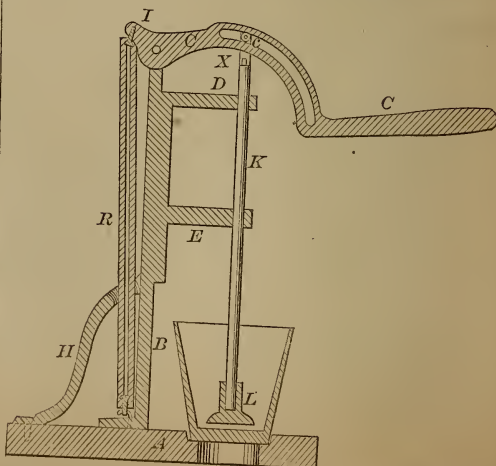
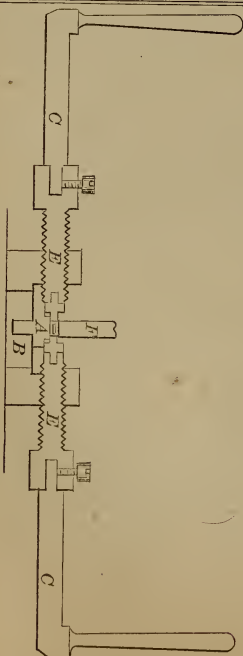


50192—W. Westlake—

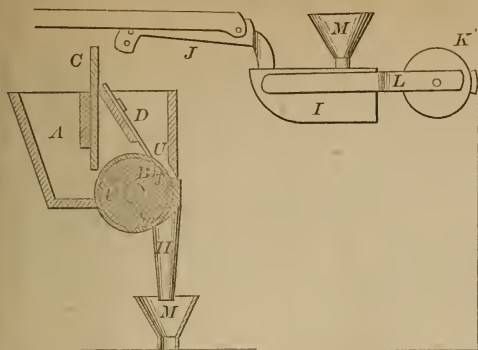
50190—J. Watson—*Boring Tool.*

50193—Whittier & Powell—*Curtain Clasp.*Whittier & Powell—*Curtain Clasp.*

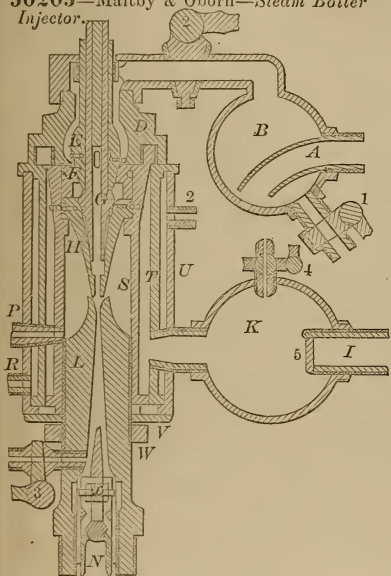
50194—

R. A. Wilder—*Well Tube Packing.*50197—J. Wroten—*Apple Cutter and Corer.*50195—W. Wiley, Jr.—*Buckle Fastening.*50198—W. W. Armington—*Ice Crusher.*50196—F. R. Willis—*Skate Sharpener.*50199—W. W. Armington—*Lemon Squeezer.*50200—V. Draper—*Seaging Links.*

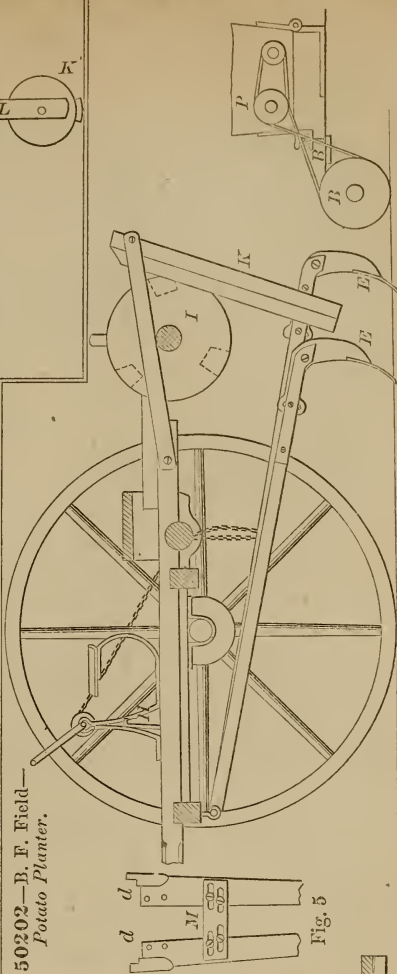
50201—B. F. Field—Seeding Machine.



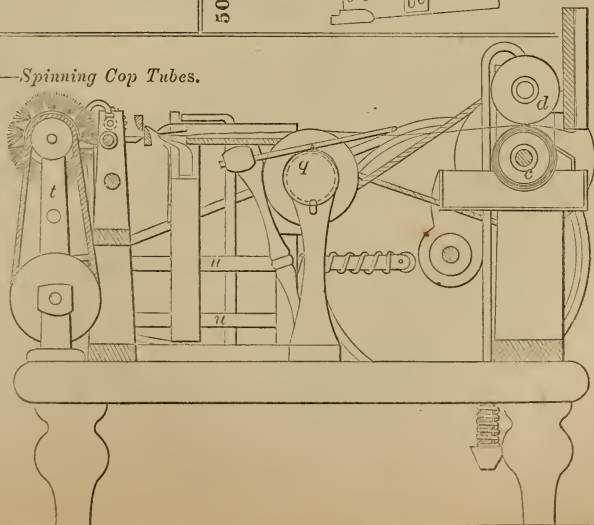
50205—Maltby & Oborn—Steam Boiler Injector.

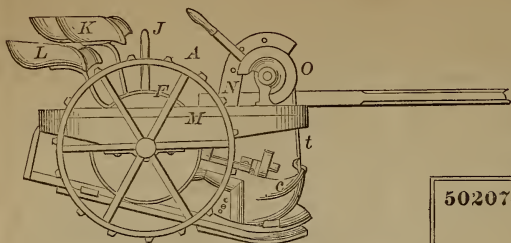
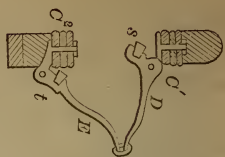
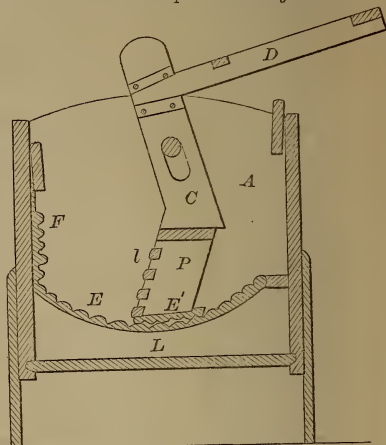
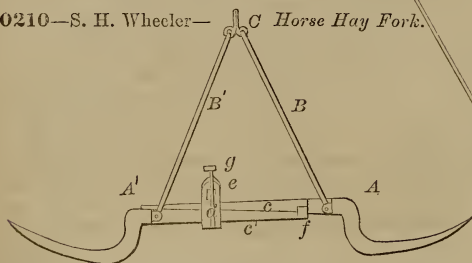
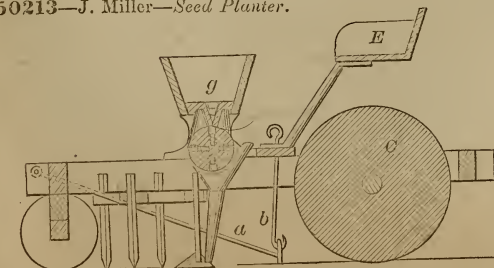
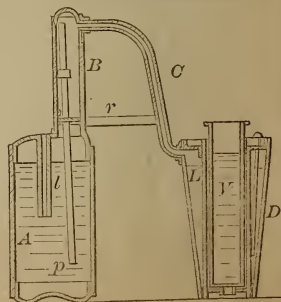


50202—B. F. Field—
Potato Planter.

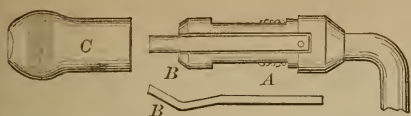


50204—W. J. Innis—Spinning Cop Tubes.

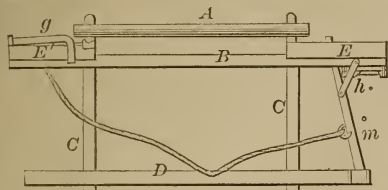


50206—G. Murphy—*Harvesting Machine.*50209—A. Selkirk—*Carriage Spring.*50207—C. C. Phelps—*Washing Machine.*50208—C. C. Schmidt—*Steam Gauge.*50210—S. H. Wheeler—*C Horse Hay Fork.*50213—J. Miller—*Seed Planter.*50212—Mignon & Rouart—*Freezing Liquids.*

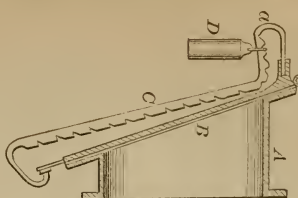
50214—C. H. Amidon—Bit Stock.



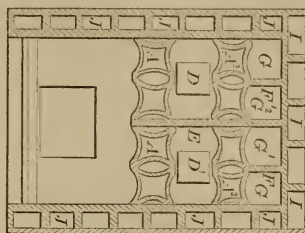
50215—R. W. Andrews—Loom.



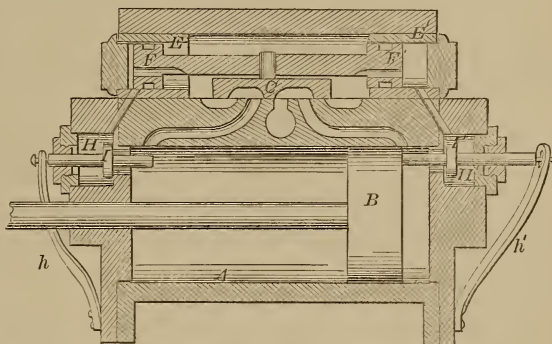
50216—G. Asmus—
Store Dumper.



50221—J. Chilcott—Setting
Steam Boilers.



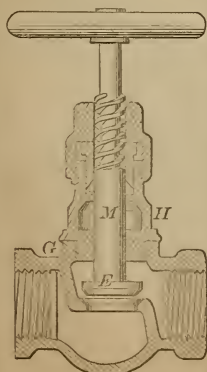
50218—A. S. Cameron—Valve Gear.



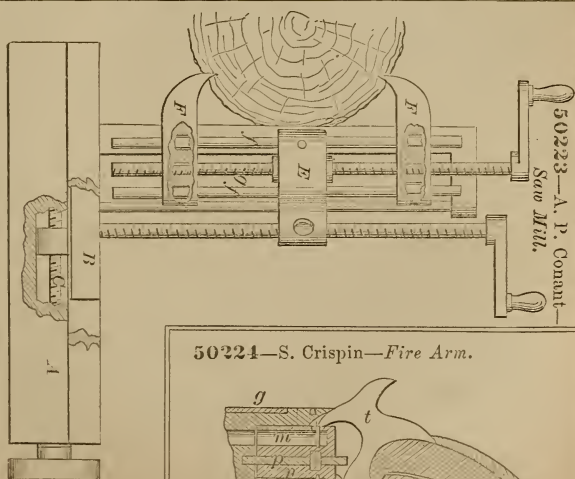
50217—A. Bouton—Cultivator.



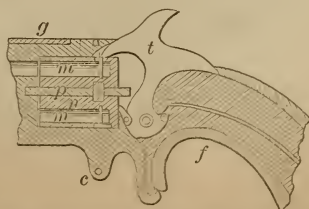
50219—W. Chesley—
Globe Valve.

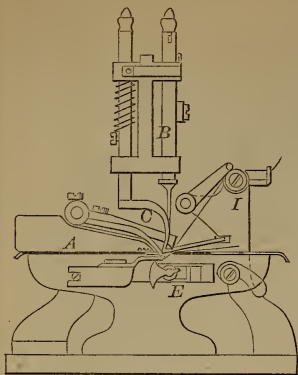
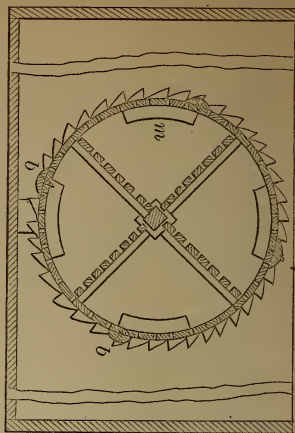
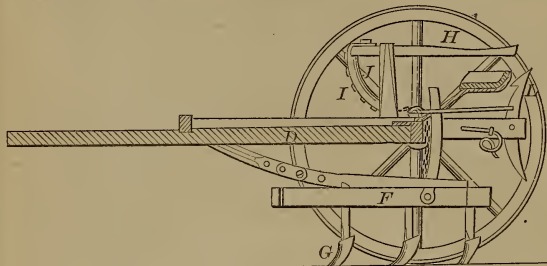
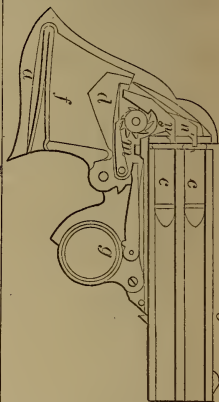
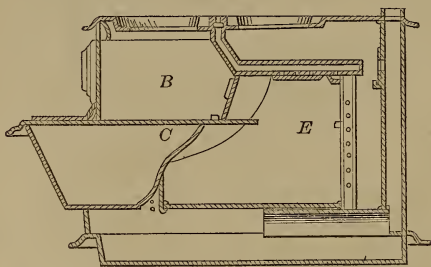
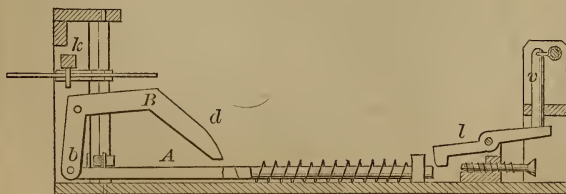
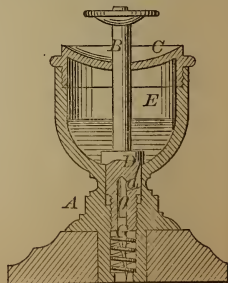


50223—A. P. Conant—
Saw Mill.

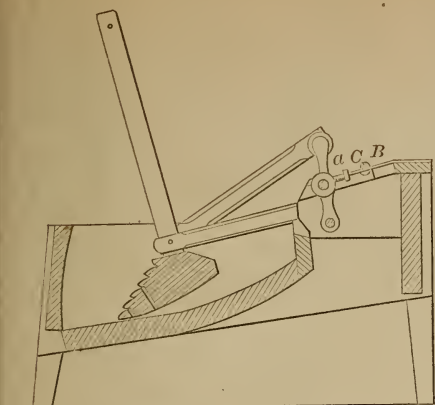


50224—S. Crispin—Fire Arm.

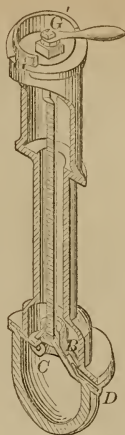


50225—C. O. Crosby—*Ruffling Machine.*50227—Day & Nelson—*Loom.*50228—C. R. Denn—*Tanning.*50229—I. Denham—*Cultivator.*50226—D. Croak—*Sheet Metal Box.*50231—A. S. Dunham—*Cook Stove.*50232—W. H. Elliot—*Fire Arm.*50230—E. Dews—*Spinning Jack.*50233—J. H. Ferguson—*Lubricator.*

50234—B. S. Fletcher—Washing Machine.

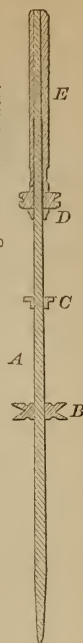


50235—J. Frierer—Fire Plug.

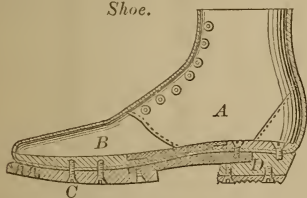


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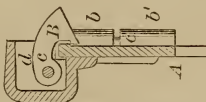
J. Goulding—Bobbin Holder.



50236—J. Fulton—Wooden Soled Shoe.



50239—W. S. Gerard—Shutter Hinge and Fastening.

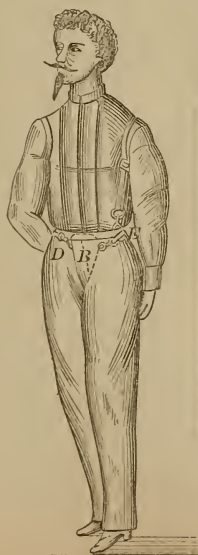


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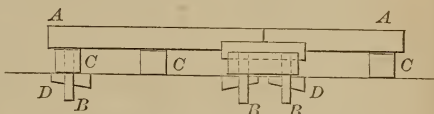
J. Goulding—Bobbin Holder.



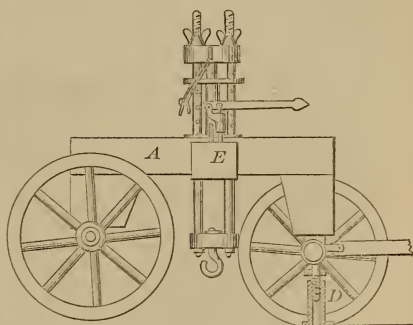
50242—B. J. Greely—Pantaloons.



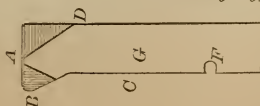
50243—A. Hamill, Sr.—Railroad Rail.



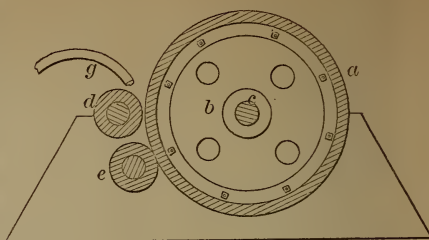
50244—E. C. Haseerick—Extracting Stumps.



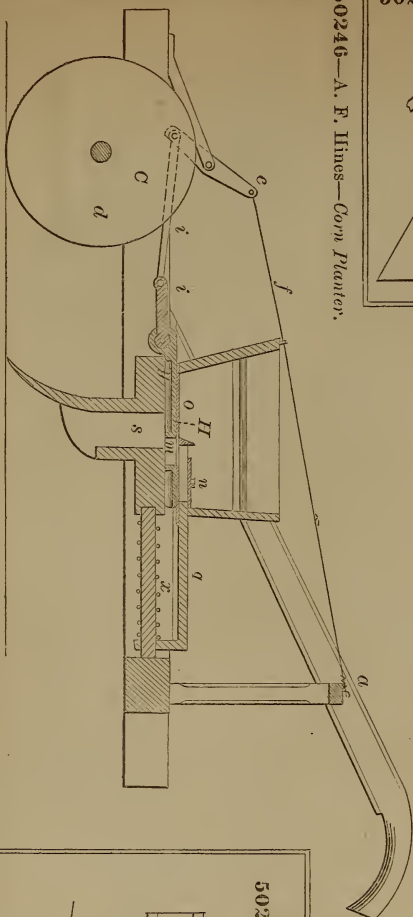
50245—H. J. Hewitt—Printing Type.



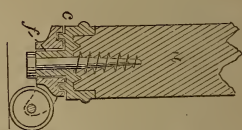
50247—A. Hitchcock—Roller Crushing Machine.



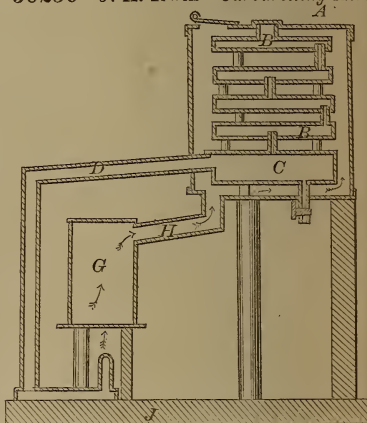
50246—A. F. Hines—Corn Planter.



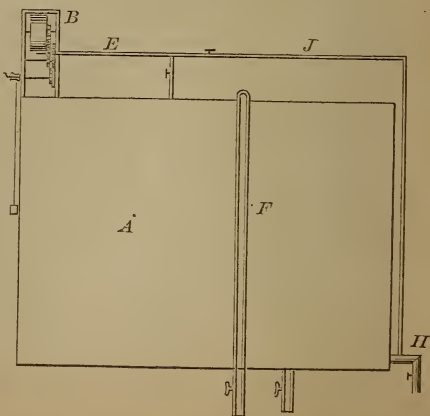
P. B. Holmes—Furniture Caster.



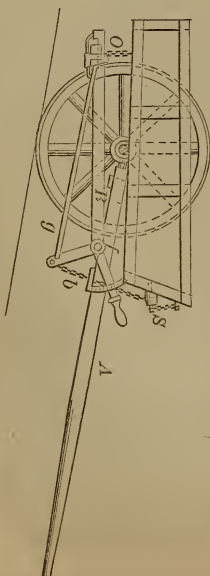
50250—J. H. Irwin—Carburetting Air.



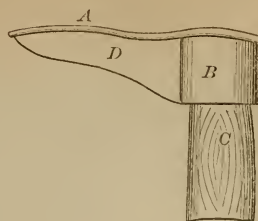
50251—J. H. Irwin—Carburetting Air.



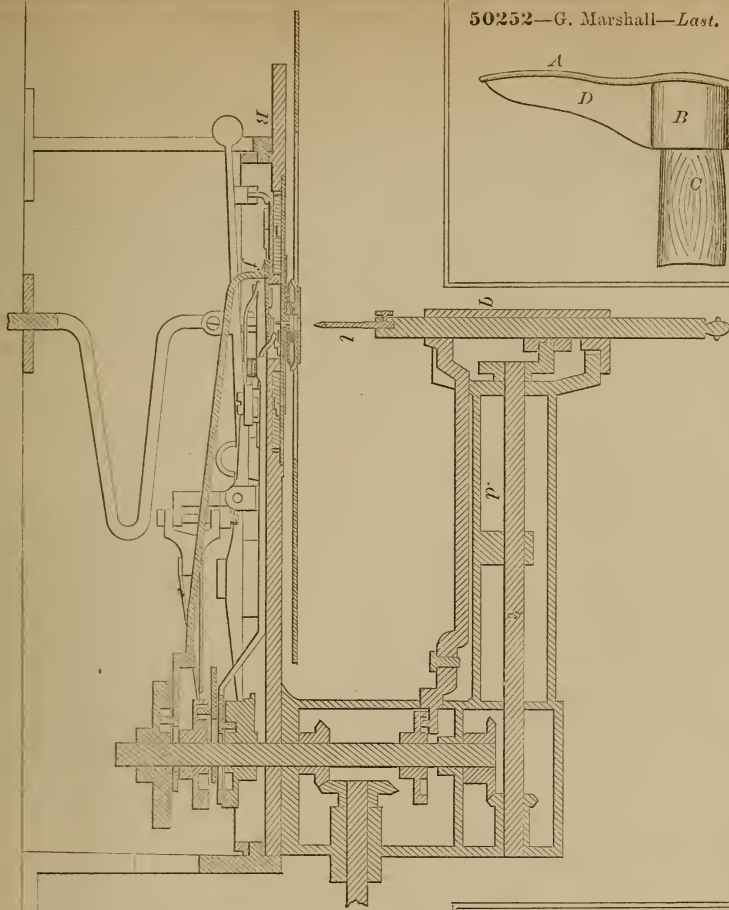
50248—Holeroff & Smith—Cart Brake.



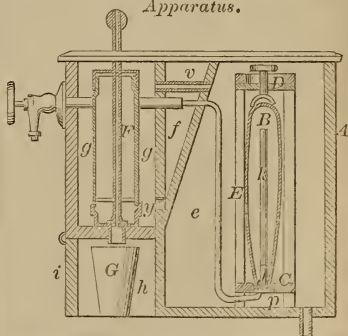
50252—G. Marshall—*Last.*



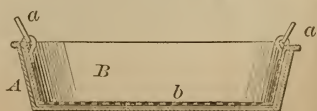
50253—D. W. G. Humphrey—*Sewing Machine.*



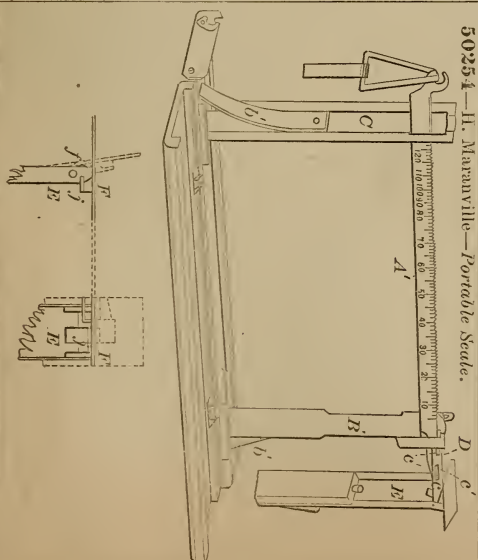
50255—J. Mathews, Jr.—*Soda Water Apparatus.*



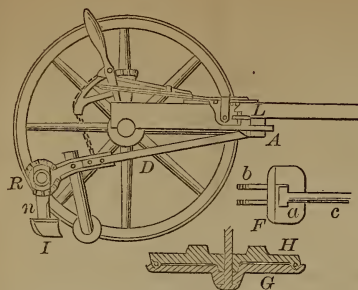
50256—F. J. May—*Milk Pan.*



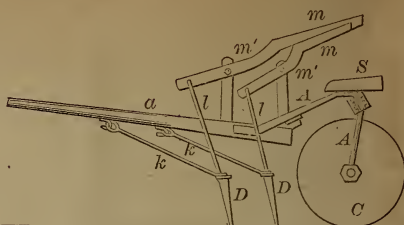
50254—H. Mauville—*Portable Scale.*



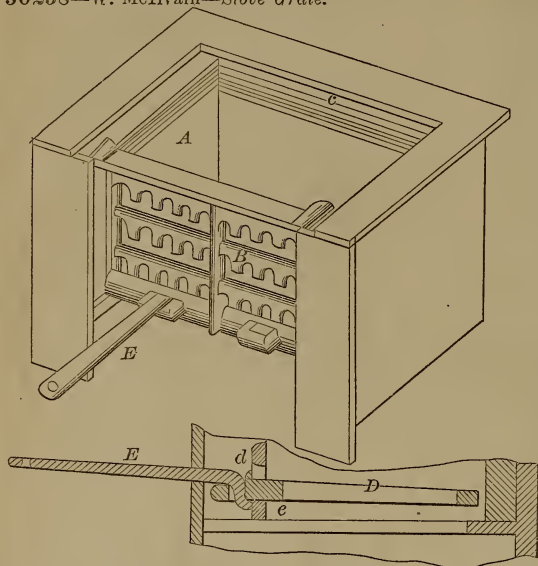
50257—R. McCorkell—Cultivator.



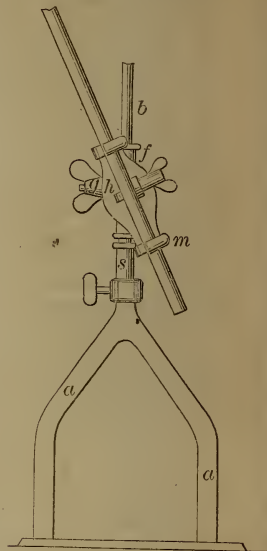
50259—W. R. Mears—Roller and Harrow.



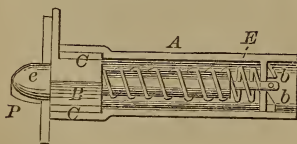
50258—W. McIlvain—Stove Grate.



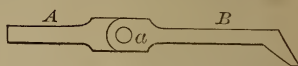
50261—J. A. Minor—Umbrella Holder.



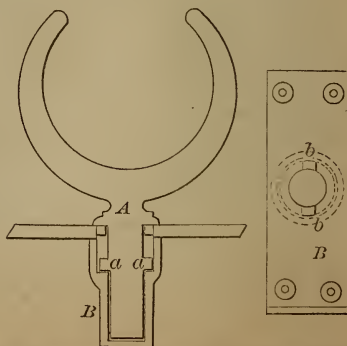
50260—M. J. Meyer—Latch and Bolt.



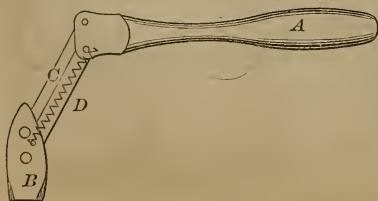
50263—C. Monson—Blasting Plug.



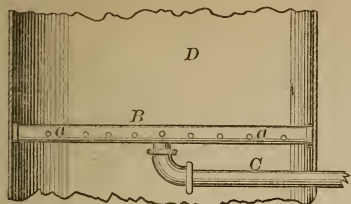
50264—P. W. Neefus—Row Lock.



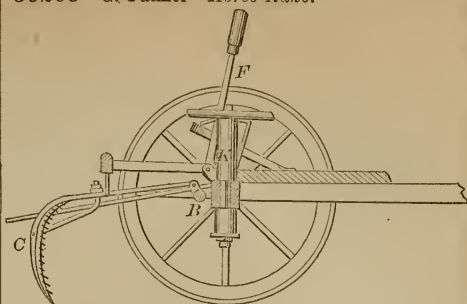
50262—C. Monson—Hammer.



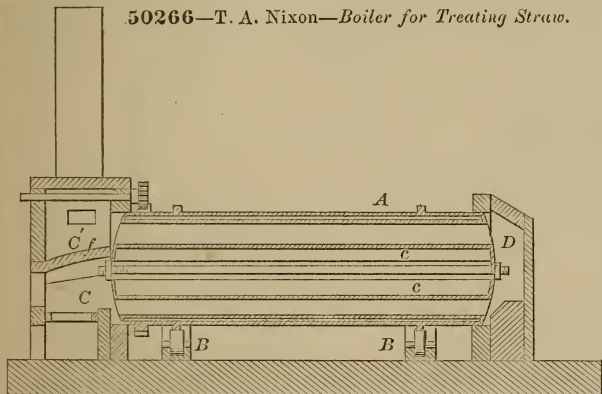
50265—D. M. Nichols—*Steam Blower.*



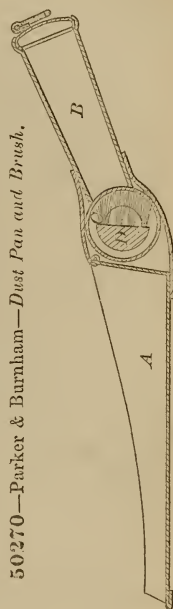
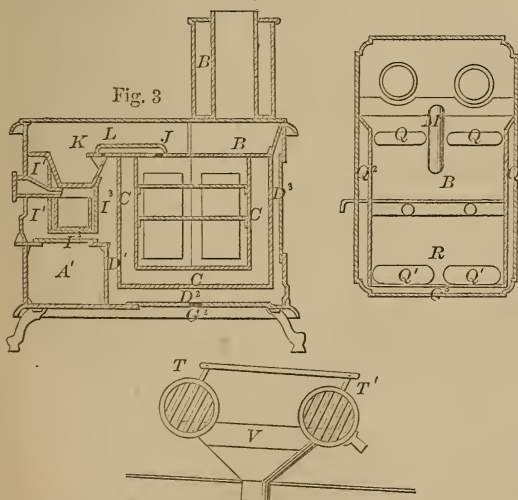
50269—G. Palmer—*Horse Rake.*



50266—T. A. Nixon—*Boiler for Treating Straw.*

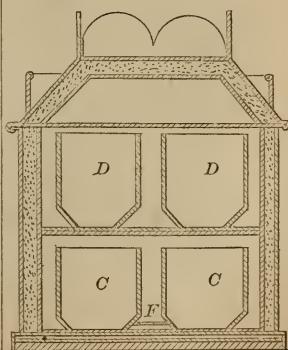


50268—C. J. Paine—*Cooking Stove.*

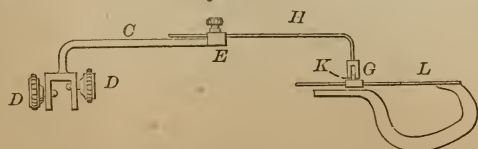


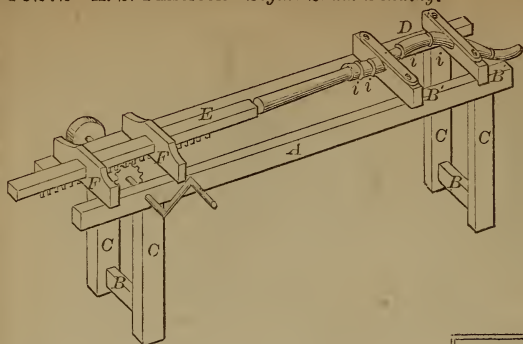
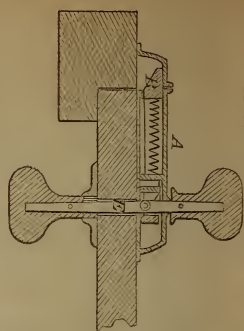
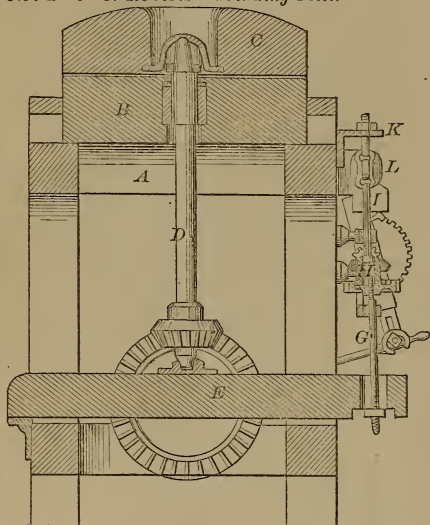
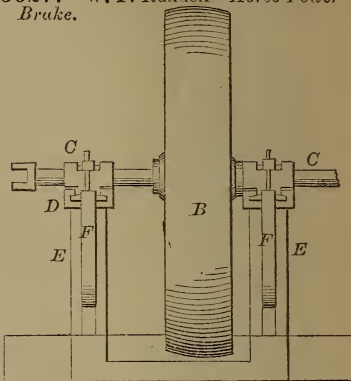
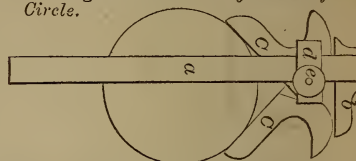
50270—Parker & Burnham—*Dust Pan and Brush.*

50267—B. M. Nyce—*Granary.*

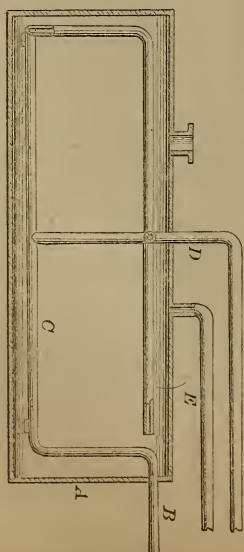
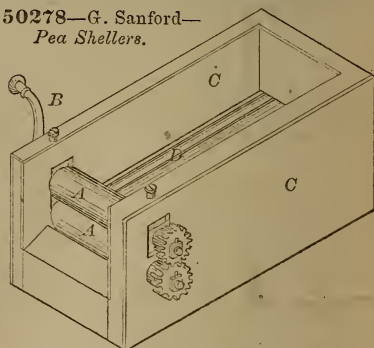


50271—S. Perrell—*Sewing Machine.*

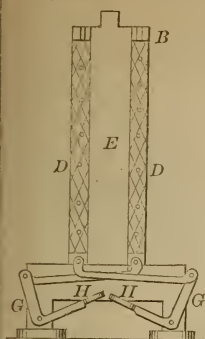


50272—A. S. Philbrook—*Scythe Snath Bending.*50273—Richmond & Gloude—*Knob Latch.*50274—J. C. Roberts—*Grinding Mill.*50277—W. F. Rundell—*Horse Power Brake.*E. P. Rogers—*For Finding Centre of Circle.*

50275—

50276—J. Rogers—*Petroleum Still.*50278—G. Sanford—*Pea Shellers.*50279—E. V. Sears—*Stocking.*

50280—W. H. Severson—*Drying Straw Board*

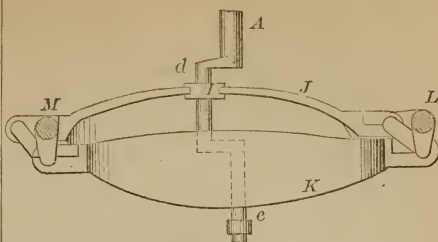


50281—

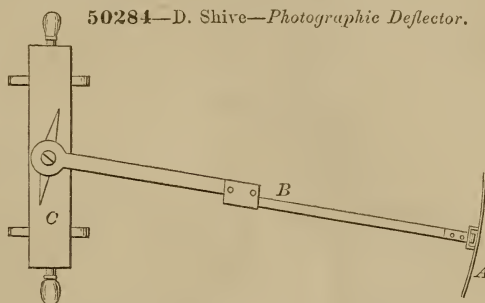
W. S. Seymour—*Mill Roller.*



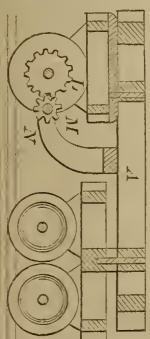
50283—H. F. Shaw—*Transmitting Motion.*



50284—D. Shive—*Photographic Deflector.*

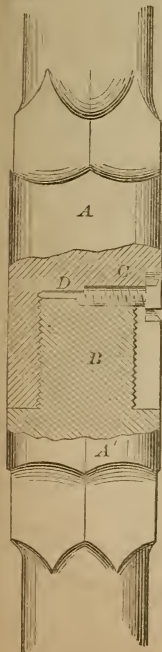


50282—H. F. Shaw—*Locomotive Car.*

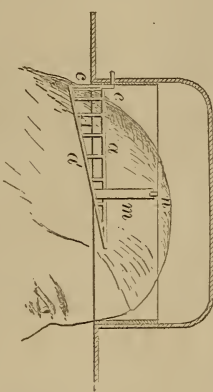


50287—

J. B. Stockton—*Horing Tool.*



50285—W. Smith—*Hat.*

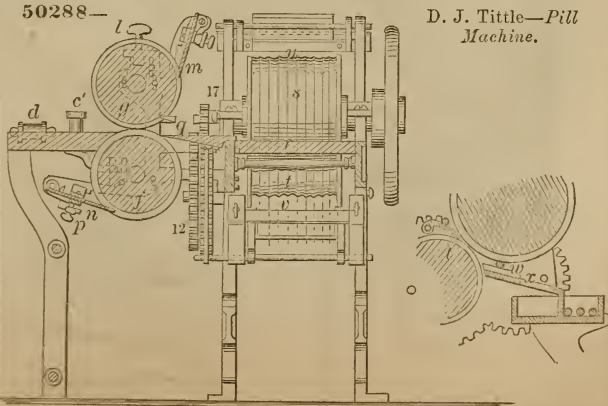


50289—W. H. Towers—*Shirt and Braces.*

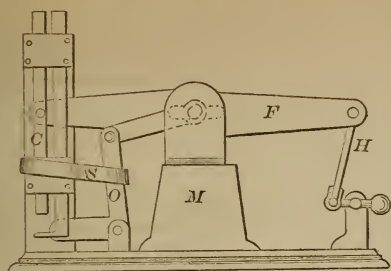


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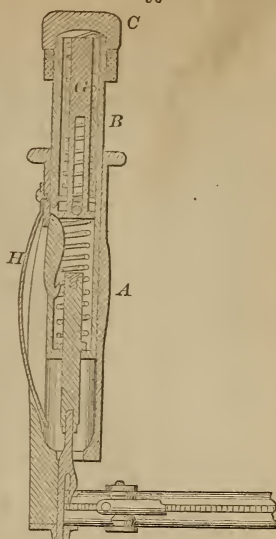
D. J. Tittle—*Pill Machine.*



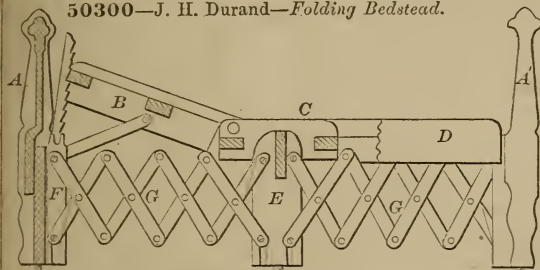
50297—F. D. Ballou—*Sewing Machine.*



50298—J. H. Brown—*Hand Pegger.*



50300—J. H. Durand—*Folding Bedstead.*



50299—E. Cajar—*Sewing Machine.*

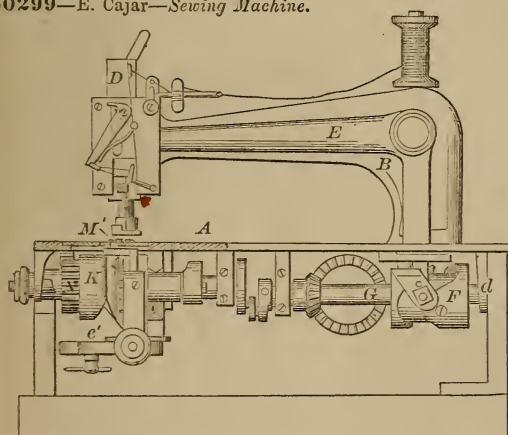
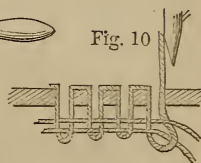


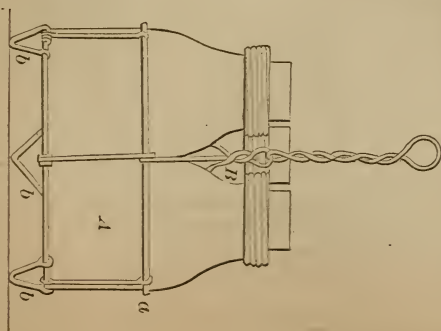
Fig. 9



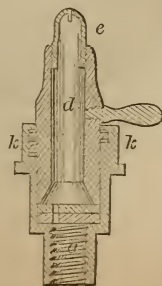
Fig. 10



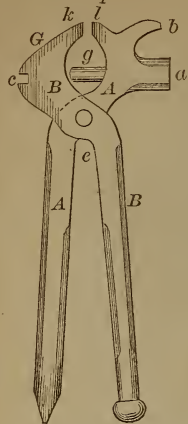
50301—C. G. Imley—*Fruit Jar Holder.*



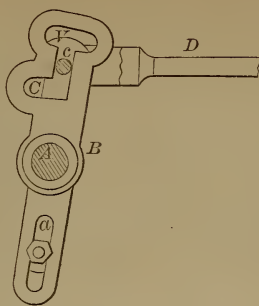
50302—E. Jones—*Gas Burner and Stop Cock.*



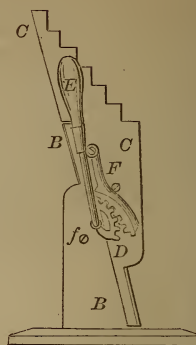
50303—
M. D. Lawrence—
Box Opener.



50304—W. McClintock—
Valve Gear.

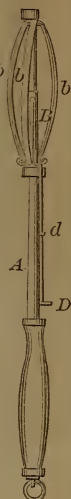


50306—
H. S. Shepardson—
Lifting Jack.

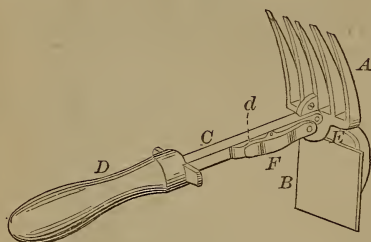


50310—

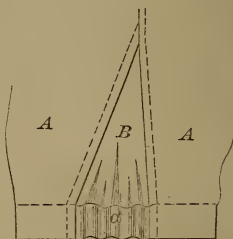
R. White—Lamp Cleaner.



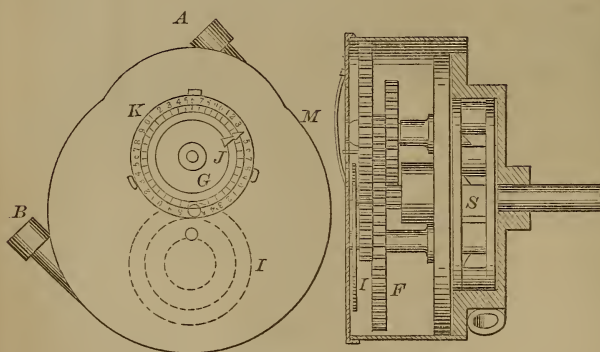
50305—Porter & Spalding—Garden Tool.



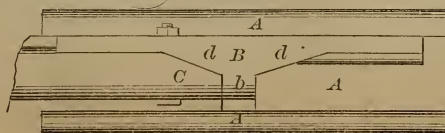
50308—J. Ware—Drawers.



50307—H. S. Walcott—Water Meter.

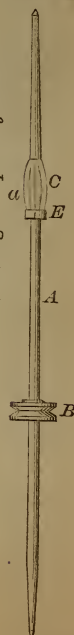


50309—H. W. Warner—Railroad Chair.



50311—

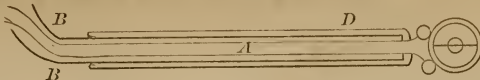
E. Wright—Spinning Bobbin.



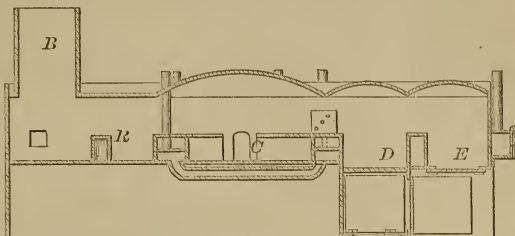
50312—E. Charlesworth—*Small Arm.*



50314—W. P. Piggott—*Telegraph Cable.*



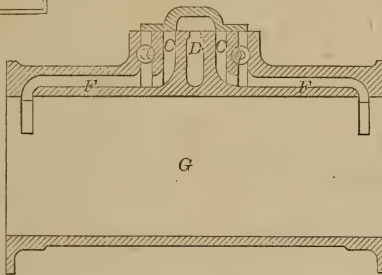
50319—J. Williams—*Puddling Furnace.*



50318—M. B. Westhead—*Winding Tapes, &c.*

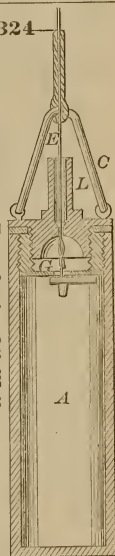


50320—J. M. Albertson—*Cut-off Valve.*



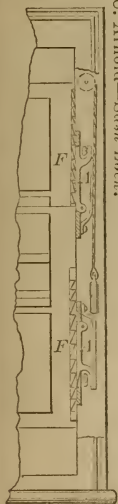
50324—

A. T. Ballantine—*Torpedo for Oil Wells.*

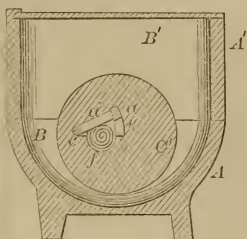


50321—

A. C. Arnold—*Sash Lock.*



50322—G. R. Baker—*Kneading Dough.*

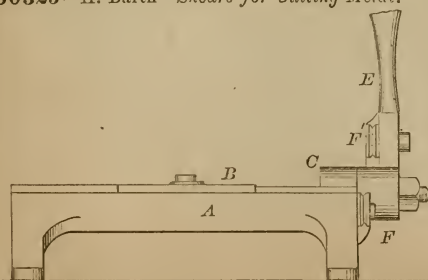


50317—

C. Spanagel—*Fabric for Skirt Lining.*

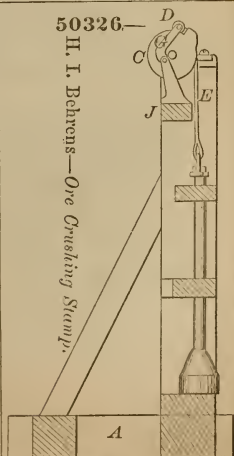


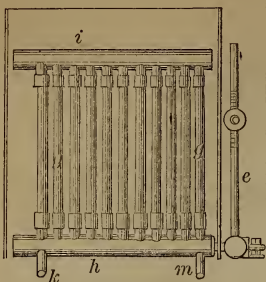
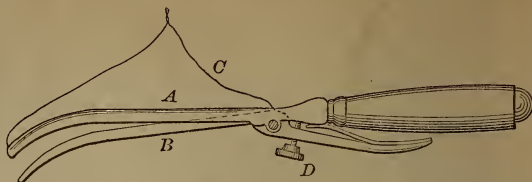
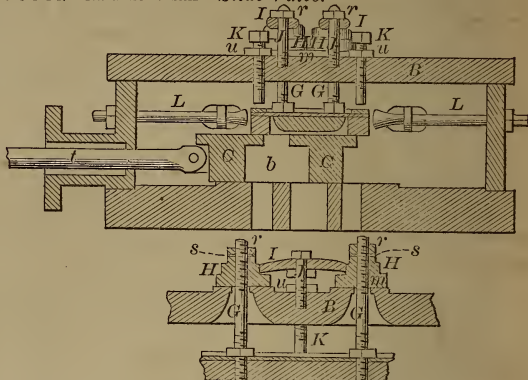
50325—H. Barth—*Shears for Cutting Metal.*



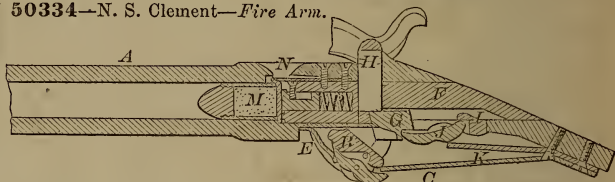
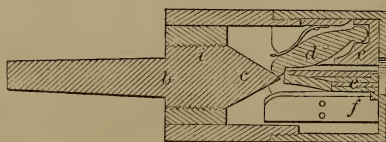
50326—

H. I. Behrens—*Ore Crushing Stamp.*

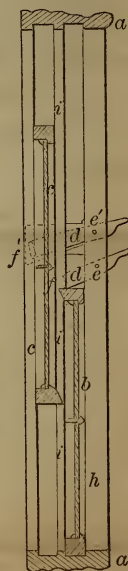
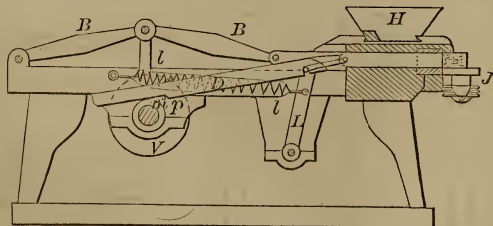
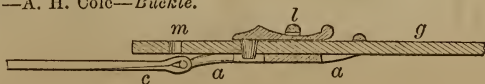


50327—Blakslee & Manser—*Grate Bar.*50330—C. C. Brown—*Bistoury.*50331—A. Buchanan—*Slide Valve.*

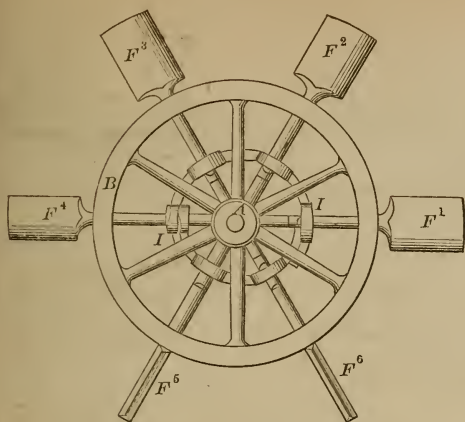
50328—

W. G. A. Donwill—*Screw Driver.*50334—N. S. Clement—*Fire Arm.*50329—T. Brooks—*Chuck.*

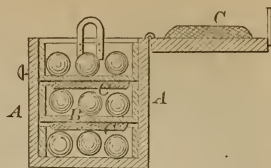
50332—

E. A. Campbell—*Stair Supporter.*50333—M. Chittenden—*Pressing Brick.*50337—A. H. Cole—*Buckle.*

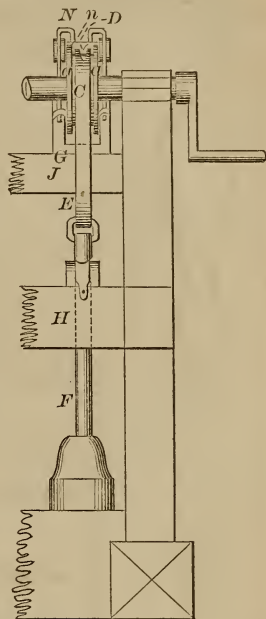
50338—M. G. Collins—*Paddle Wheel.*



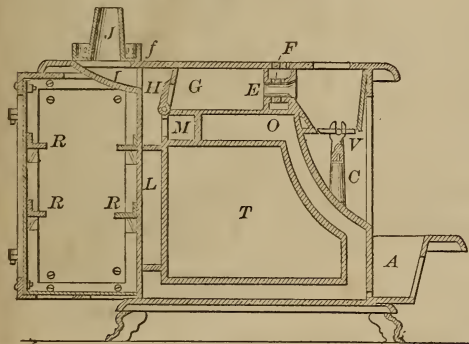
50341—E. M. Coombs—*Egg Box.*



50342—E. Dart—*Ore Crushing Stamp.*



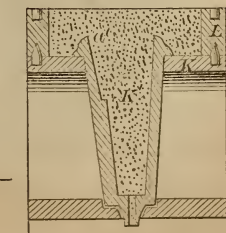
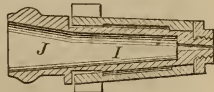
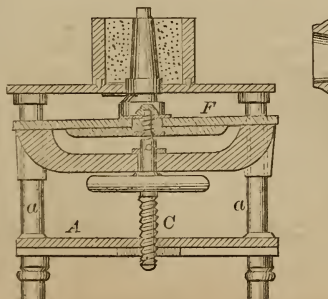
50339—J. D. Conner—*Cooking Stove.*



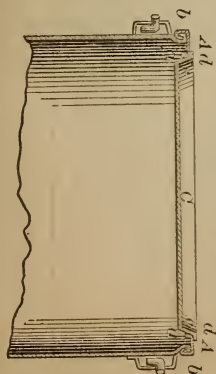
50343—Dutton & Maguire—*Well Tube.*



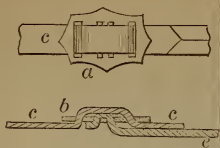
50340—T. Considine—*Casting Skeins of Axles.*



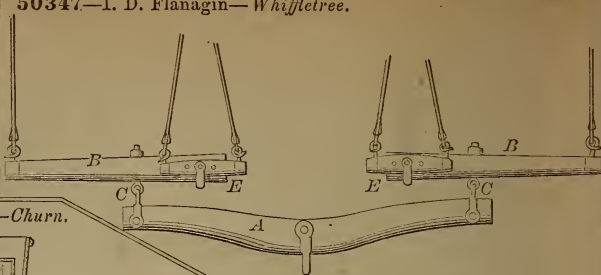
50344—J. C. Eiben—*Sheet Metal Can.*



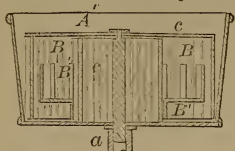
50345—J. Elleman—*Shoe Buckle.*



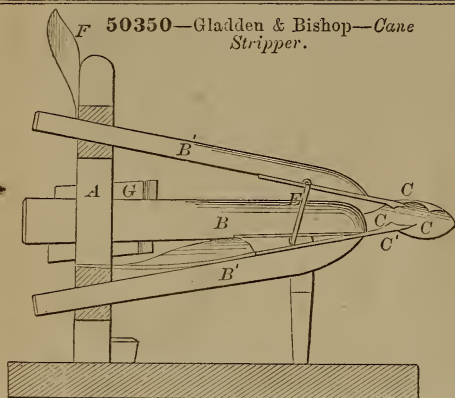
50347—I. D. Flanagan—*Whiffletree.*



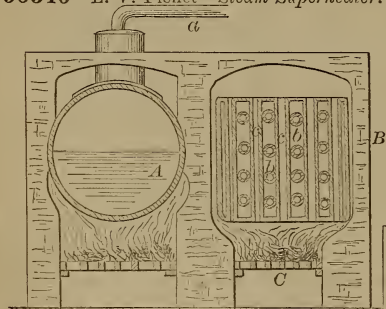
50349—J. B. Ghormley—*Churn.*



50350—Gladden & Bishop—*Cane Stripper.*



50346—L. V. Fichet—*Steam Superheater.*

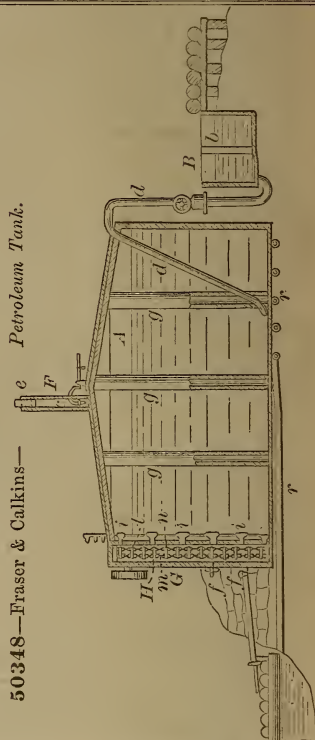


50351—B. J. Greely—*Suspenders.*

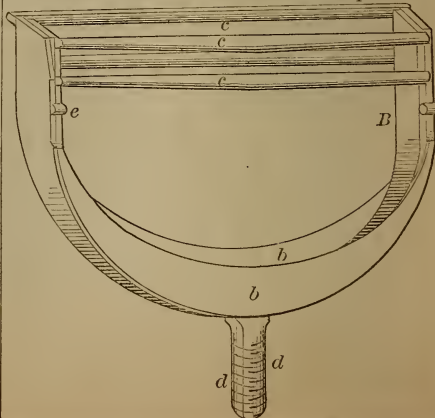


Petroleum Tank.

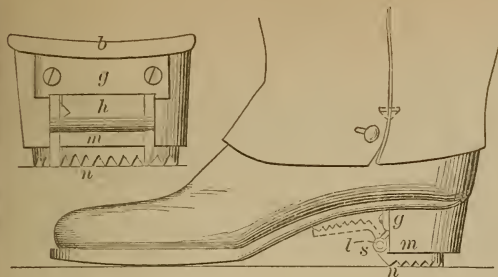
50348—Fraser & Calkins—



50352—E. J. Green—*Broom and Mop Head.*



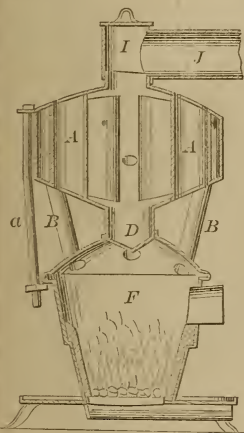
50353—D. Greene—*Ice Creeper.*



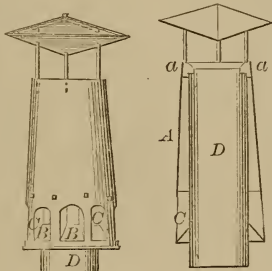
50357—B. B. Hotchkiss—*Packing Projectiles.*



50354—C. C. Hare—*Heater.*

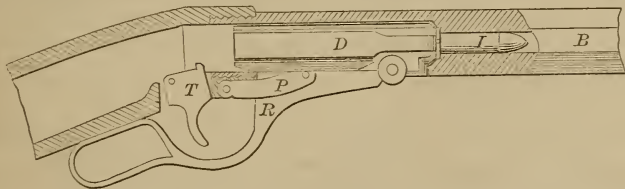


50356—B. A. Henriksen—*Chimney Top.*

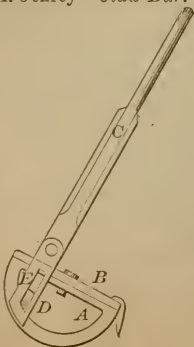


50359—J. W. Hyatt, Jr.—*Billiard Ball.*

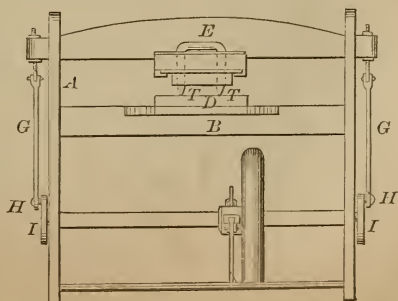
50358—C. Howard—*Fire Arm.*



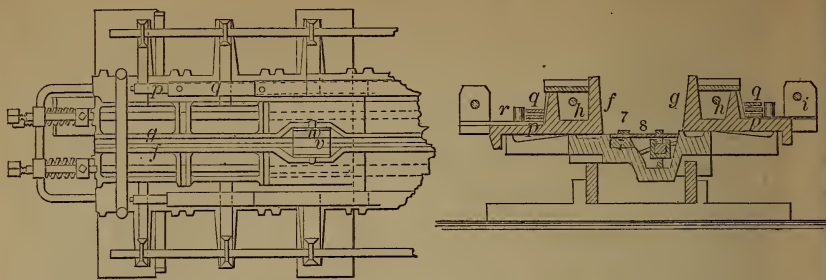
50361—H. Jeffrey—*Claw Bar.*



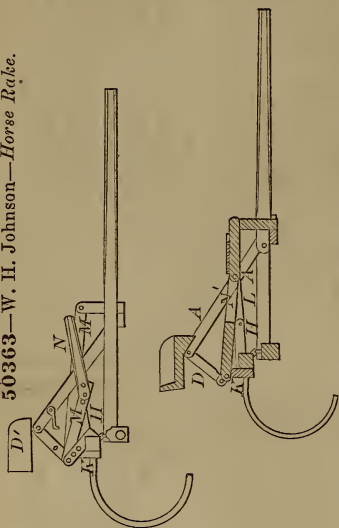
50360—P. Jackson—*Cutting Boots and Shoes.*



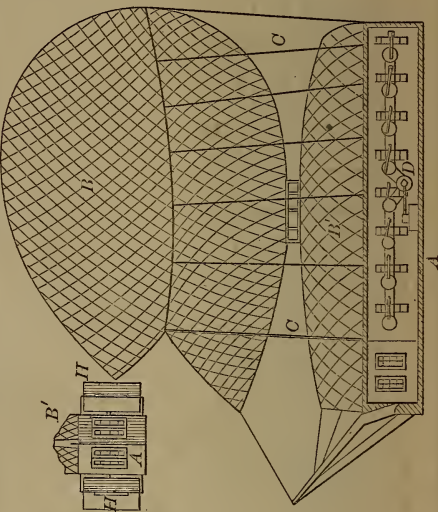
50362—H. Jenkins—Casting Railroad Bars.



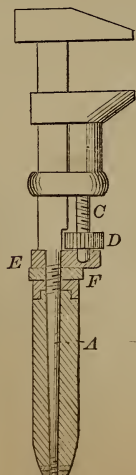
50363—W. H. Johnson—Horse Rake.



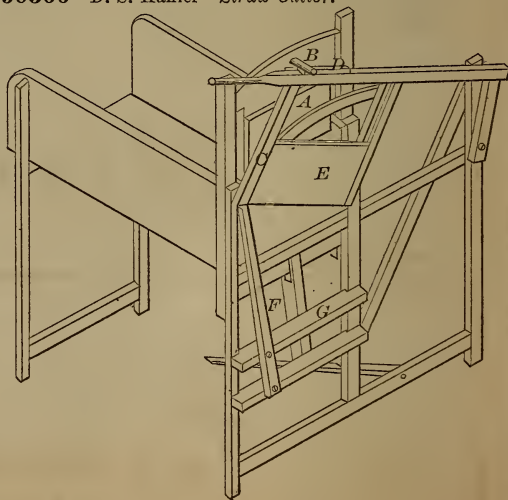
50365—Just & Koellener—Aerial Car.



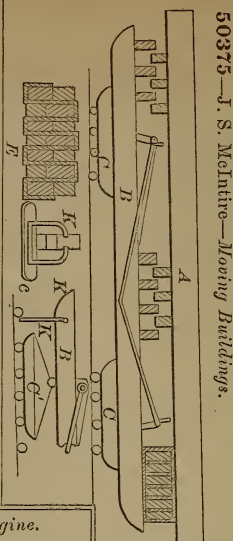
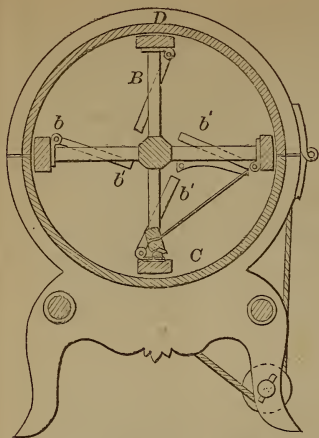
50364—Jordan & Smith—Wrench.



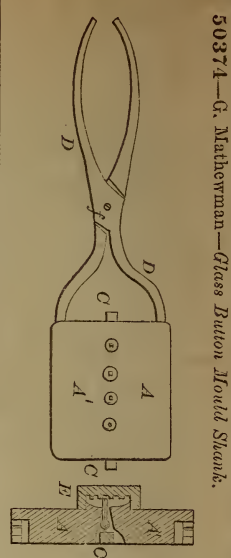
50366—D. S. Kahler—Straw Cutter.



50371—S. Lewis—Flour Bolt.

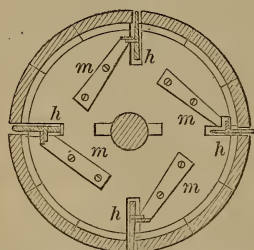
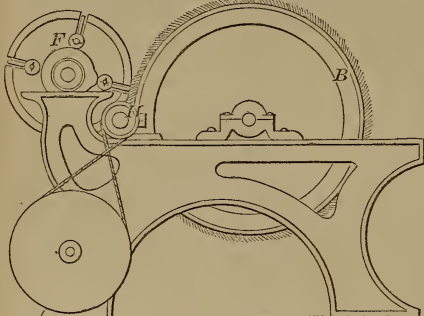


50375—J. S. McIntire—Moving Buildings.

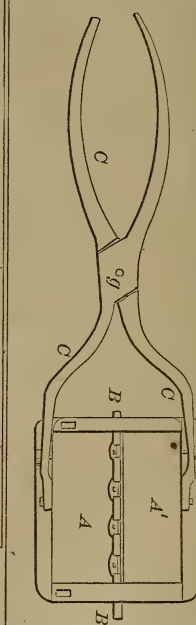
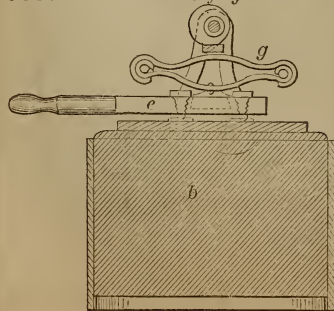


50374—G. Mathewman—Glass Button Mould Shank.

50377—H. L. Moulton—Carding Engine.



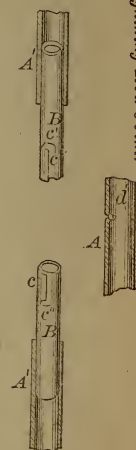
50376—R. Mood—Safety Valve.



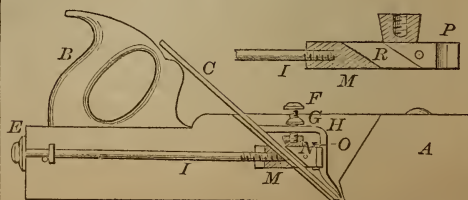
50373—G. Mathewman—Manufacture of Glass.

50372—J.B. Lyon—

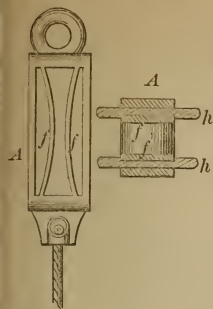
Lightning Rod Joint.



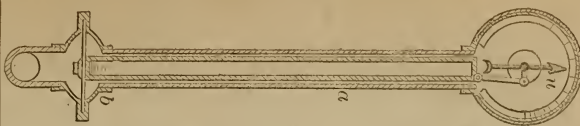
50378—G. Müllers—Bench Plane.



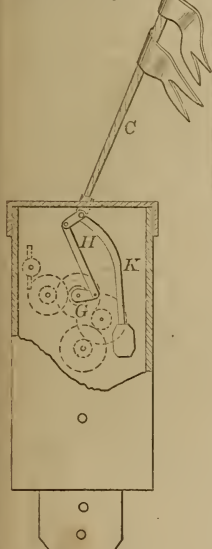
50379—J. W. Norcross—*Tackle Block.*



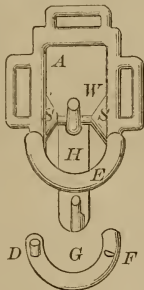
50380—P. B. O'Neill—*Salinometer.*



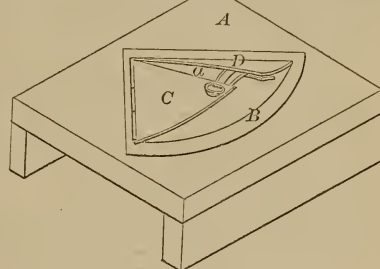
50382—A. Pell—*Railroad Signal.*



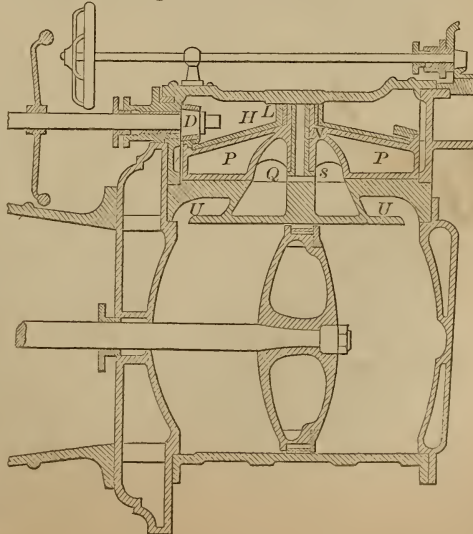
50386—N. Post—*Buckle.*



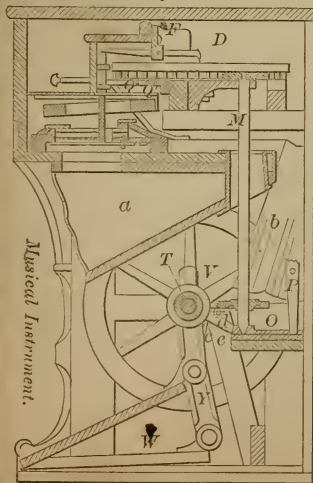
50387—T. W. Pratt—*Safety Coal Trap.*



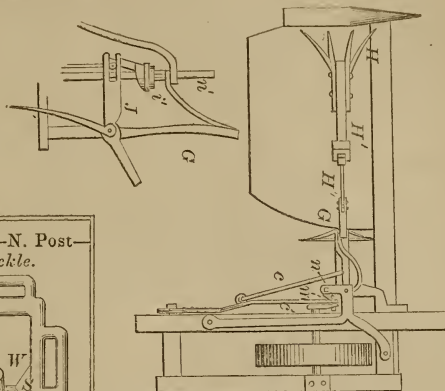
50389—E. Rogers—*Steam Valve.*



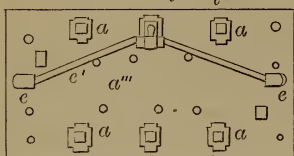
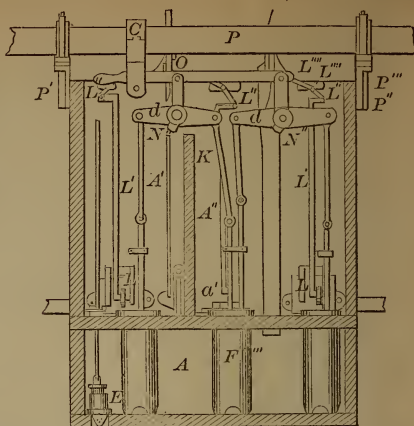
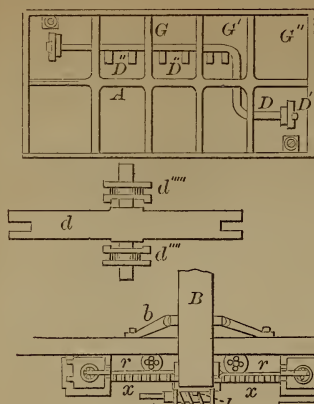
50381—F. Peabody—



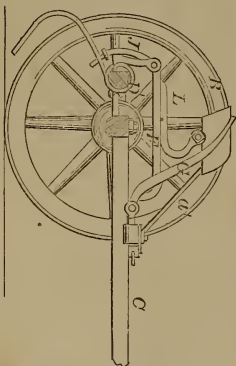
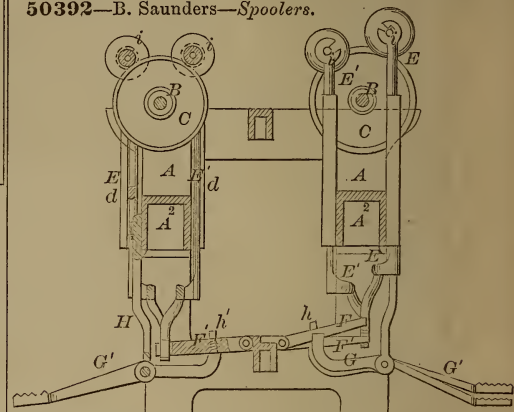
50388—J. M. Randle—*Harvester Reel.*



50390—J. Ryan—*Dry Dock.*

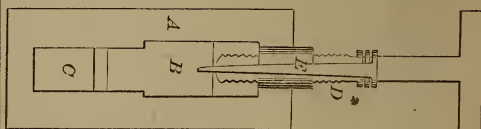


50392—B. Saunders—*Spoolers*.

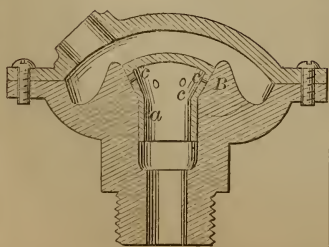


50391—A. V. Ryder—*Horse Race.*

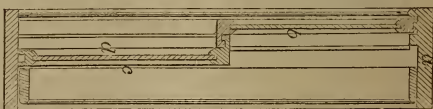
50395—R. Sisco—*Bolt Cutter.*



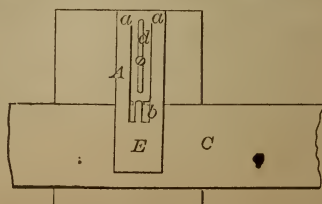
50394—G. Shield—Cone Valve.



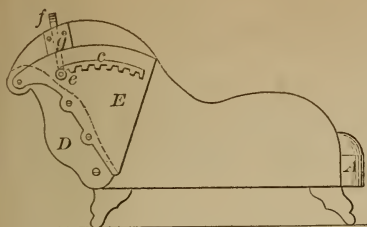
50393—C. B. Shaw—*Window Frame and Sash.*



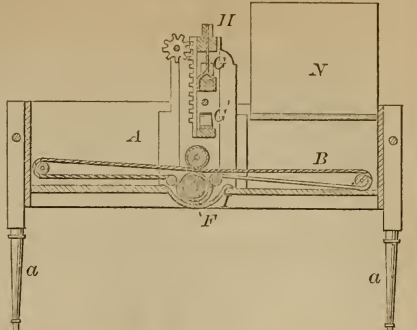
50396—A. M. Smith—*Sewing Machine Guide*.



50397—E. Smith—*Sofa or Lounge.*



50401—E. Springer—*Washing and Wringing Machine.*

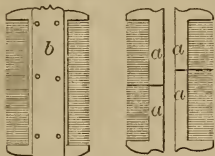


50398—

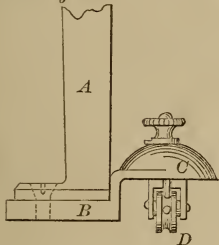
N. E. Smith—*Lightning Rod Joint.*



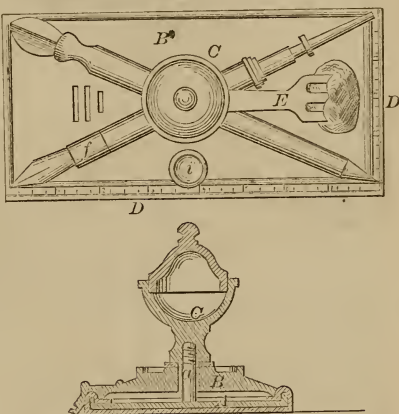
50400—I. H. Southworth—*Comb.*



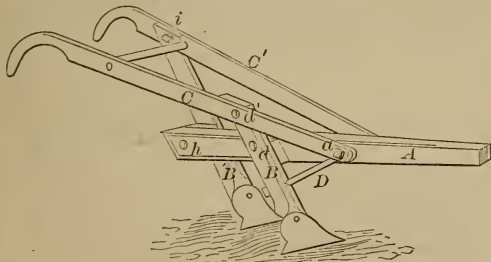
50402—N. D. Stoops—*Sewing Machine Caster.*



50404—A. H. Trego—*Blotter, &c.*



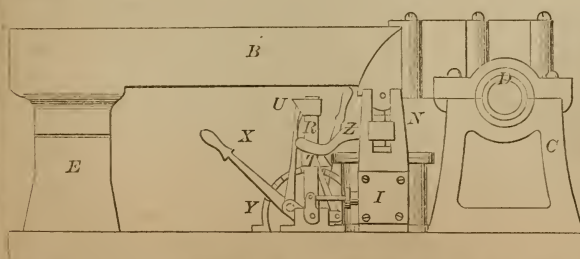
50403—Thayer & McClelland—*Cultivator.*



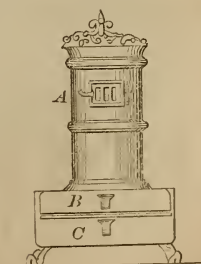
50405—S. Wales—*Sash Cord.*

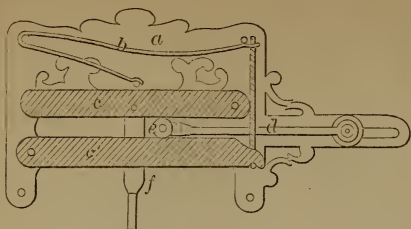
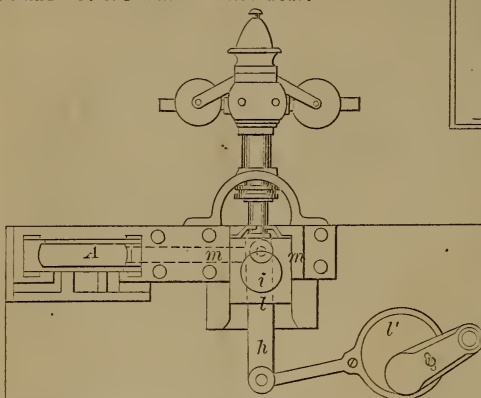
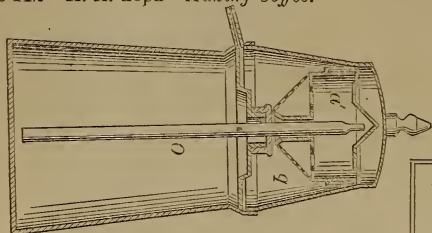
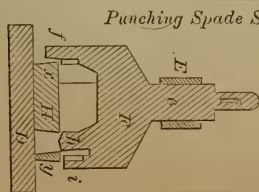
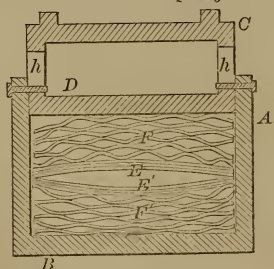


50407—J. Watt—*Valve Gear of Steam Hammer.*



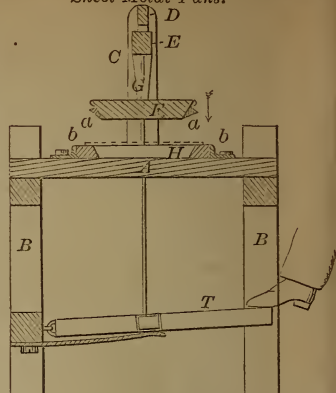
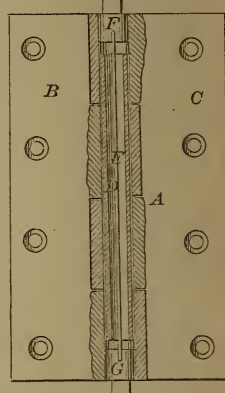
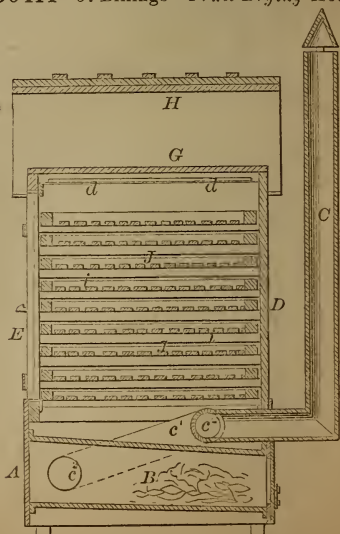
50408—A. O. Wilcox—*Stove.*



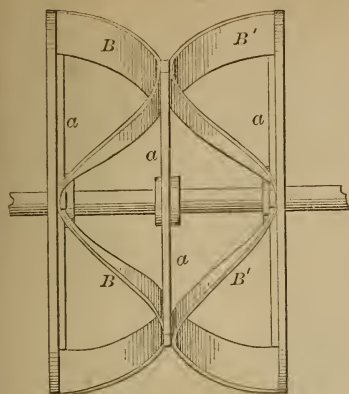
50409—W. W. Wills—*Leverage.*50413—J. S. Barden—*Valve Gear.*50412—H. A. Zopf—*Making Coffee.*50415—H. N. Black—*Car Spring.*

Punching Spade Steps.

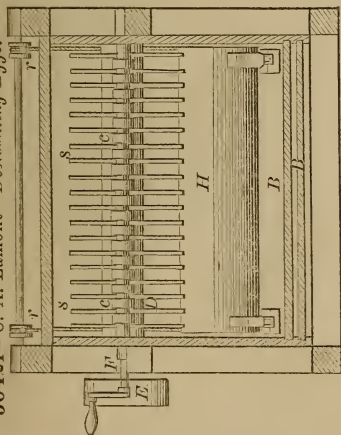
50416—S. Chestnut-

50410—F. M. Woods—*For Pressing Sheet Metal Pans.*50411—Young & Stachelin—*Hinge.*50414—J. Billings—*Fruit Drying House.*

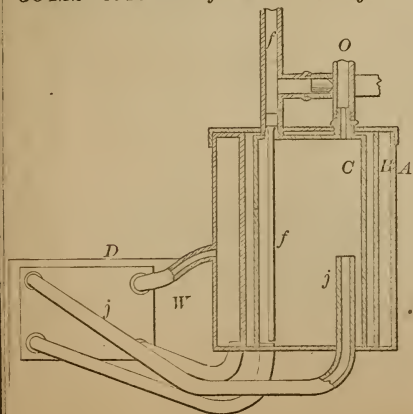
50417—W. Choate—*Paddle Wheel.*



50421—C. A. Lamont—*Desiccating Eggs.*

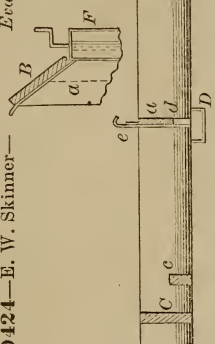


50422—J. McCloskey—*Water Heating.*

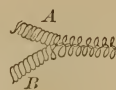


Evaporator.

50424—E. W. Skinner—



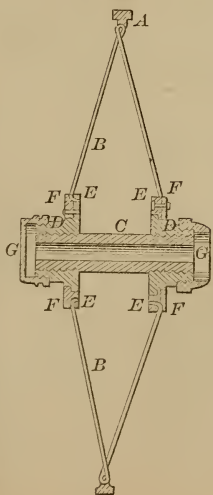
50420—H. Kellogg—*Flat Wire Spring.*

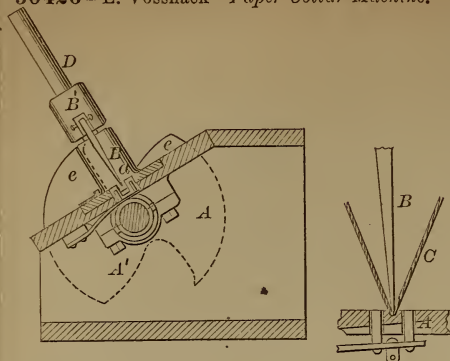
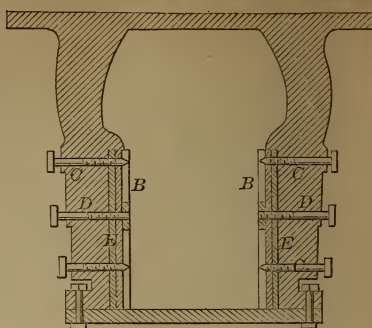
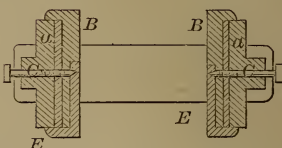
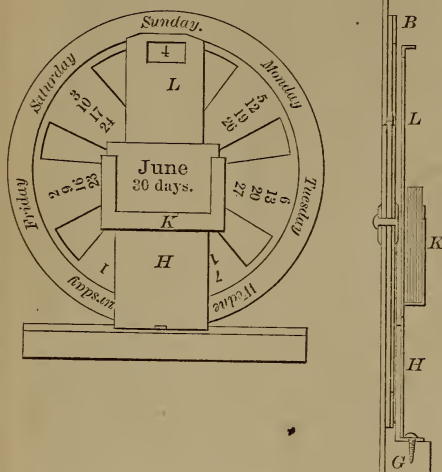
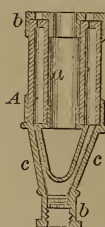
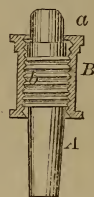
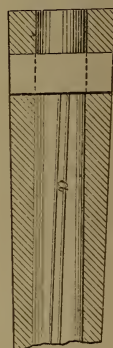
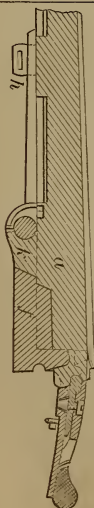
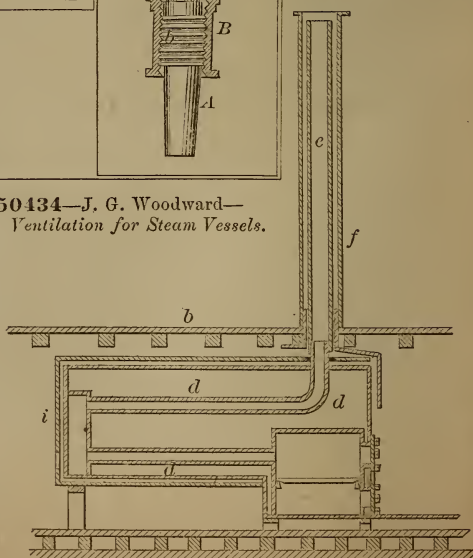


50423—J. M. Riley—*Hinge.*

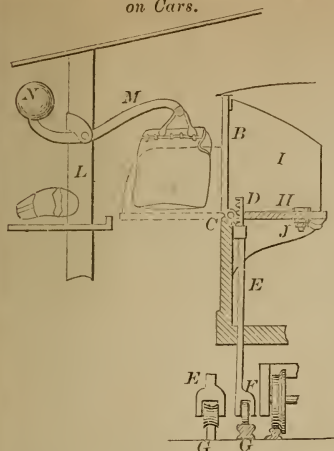


50425—J. Stoliker—*Wheel.*

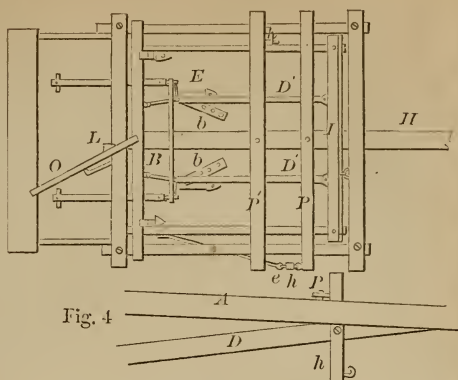


50426—E. Vossnack—*Paper Collar Machine.*50427—Wendell & Ustick—*Car Pedestals.*50430—W. Gibson—*Perpetual Almanac.*50429—
V. Dubourg—*Gas Burner.*50431—F. Kupp—*Gas Burner.*50433—A. Frantz—*Fire Arm.*50432—W. Richards—*Fire Arm.*50428—M. Burchard—*Dentist's Tool.*50434—J. G. Woodward—*Ventilation for Steam Vessels.*

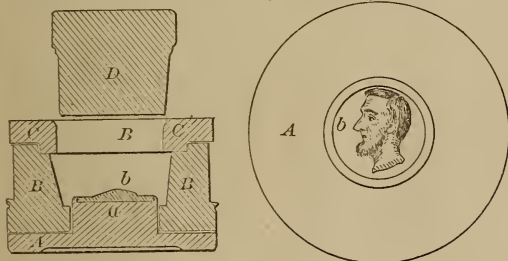
50435—A. Jordan—*Delivering Mails on Cars.*



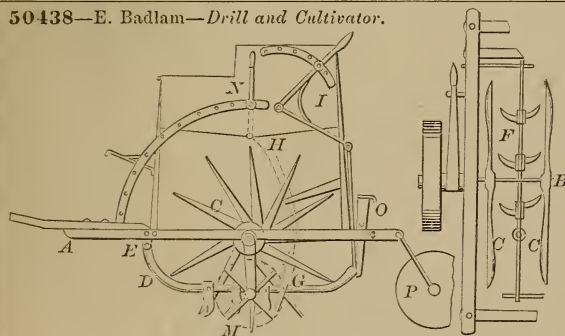
50439—L. B. Barton—*Cultivator.*



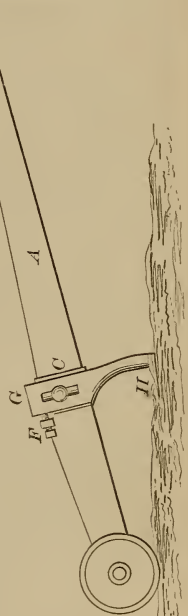
50437—J. S. & T. B. Atterbury—*Drinking Glass.*



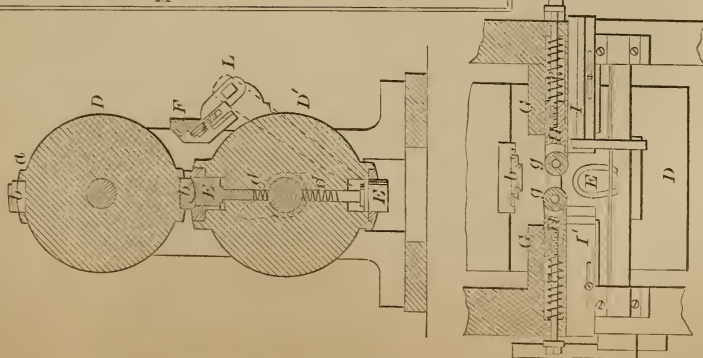
50438—E. Badlam—*Drill and Cultivator.*

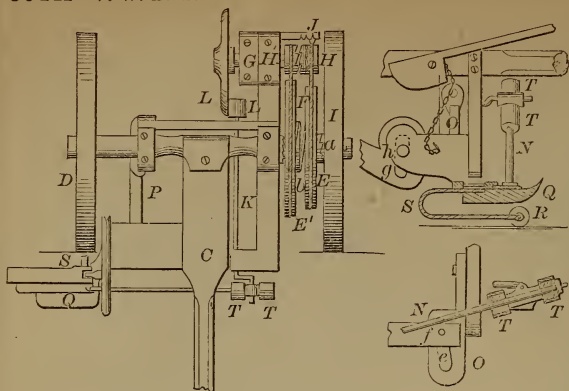
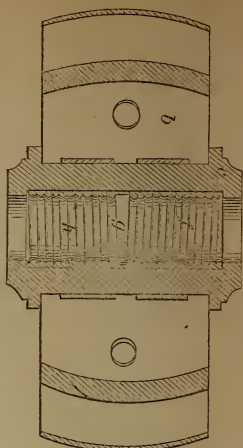
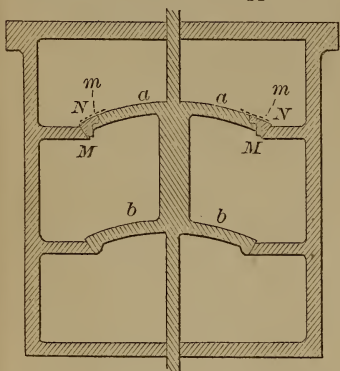
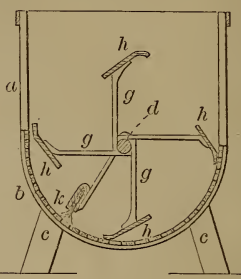
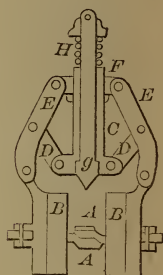
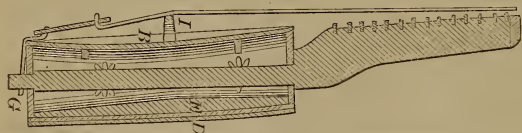
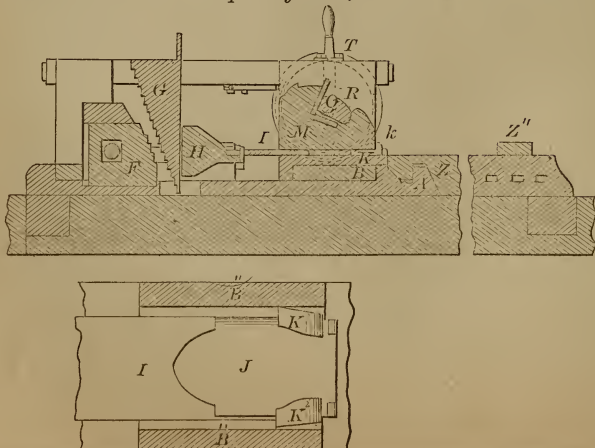


50436—A. C. Arnold—*Weeding Hoe.*

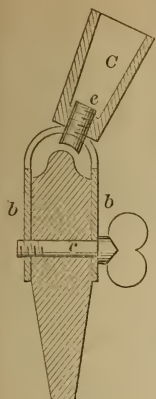


50440—L. H. Bigelow—*Horse Shoe Machine.*



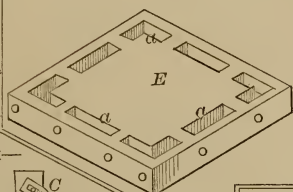
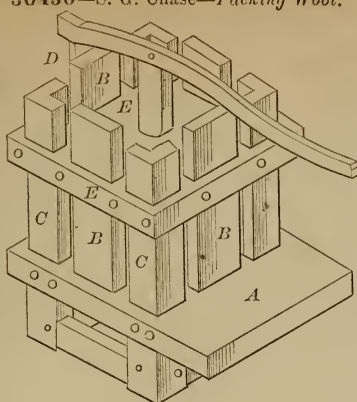
50441—V. W. Blanchard—*Harvester.*50445—J. T. Ermen—*Journal Box.*50443—R. C. Bristol—*Puppet Valve.*50447—C. Burnham—*Flour Sifter.*50442—M. Bowker—*Centre Punch.*50444—L. Brown—*Guitar Banjo.*50448—D. A. Boland—*Upsetting Press.*50446—S. Bryan—*Portable Fence.*

50449—

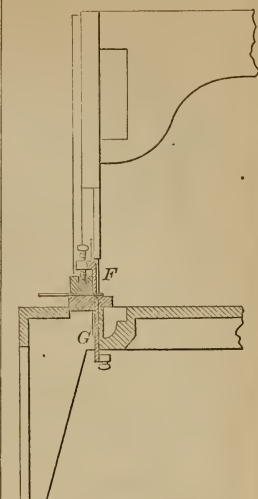


Burnett & McIntosh—Whitewash Brush Handle.

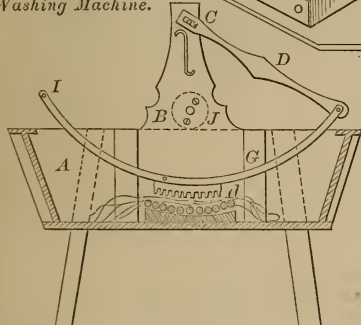
50450—S. G. Chase—Packing Wool.



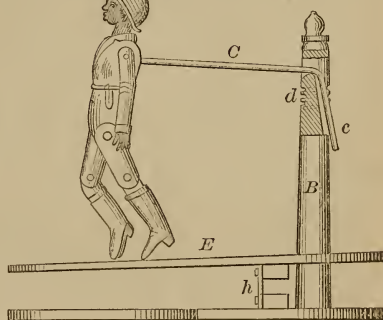
50451—J. Chilcott—Sewing Machine.



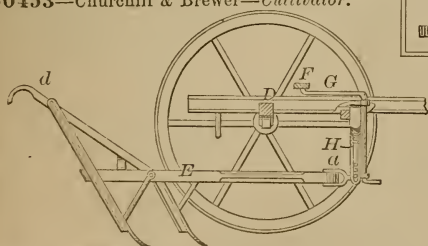
50454—A. B. Clark—Washing Machine.



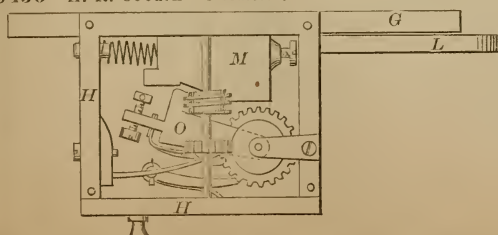
50452—C. Chinnock—Automatic Dancer.



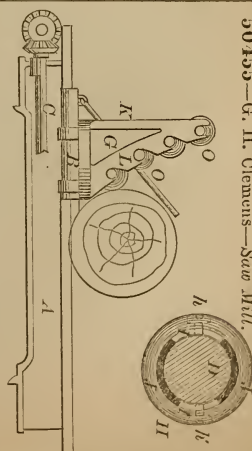
50453—Churchill & Brewer—Cultivator.

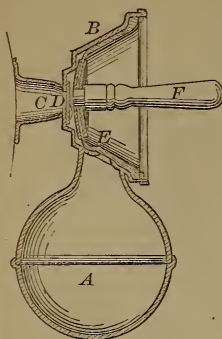
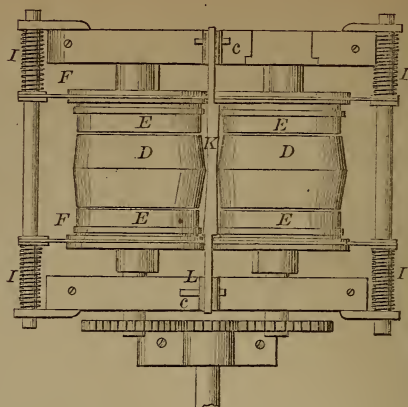
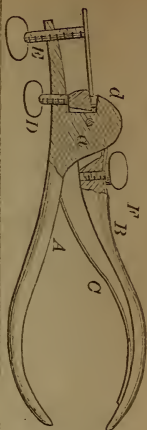
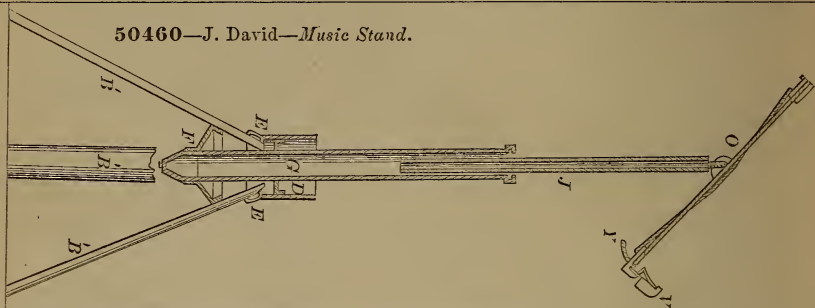
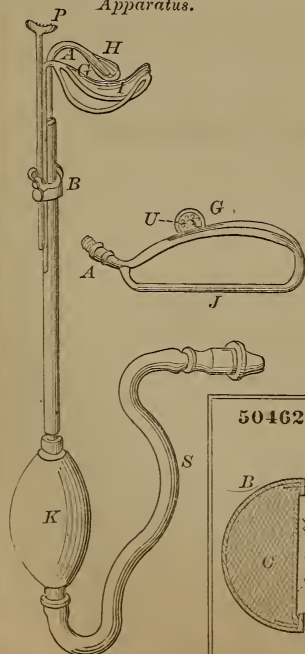
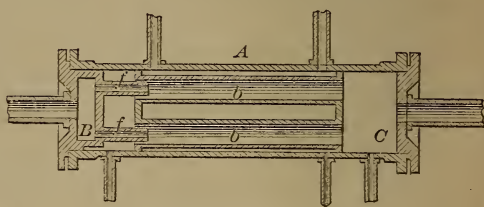
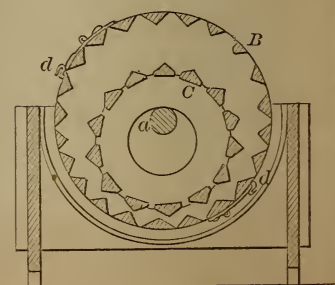
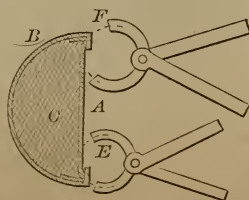


50456—H. R. Coburn—Odolometer.

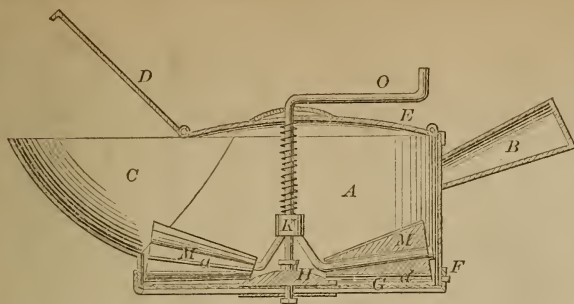


50455—G. H. Clemens—Saw Mill.



50457—L. O. Colvin—
Breast Pump.50458—T. Cooper—*Rolling Car Axles.*50463—A. R. Renner—*Saw Set.*50460—J. David—*Music Stand.*50461—W. H. Dibble—*Dental Apparatus.*50459—W. B. Cross—*Feed Water Heater.*50464—J. B. Ghormley—*Washing Machine.*50462—H. Dunham—*Shoe.*

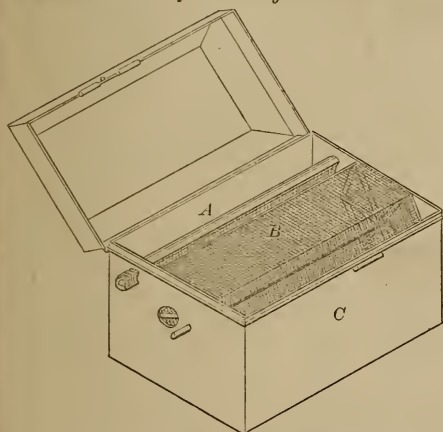
50465—S. V. Gifford—Sieve.



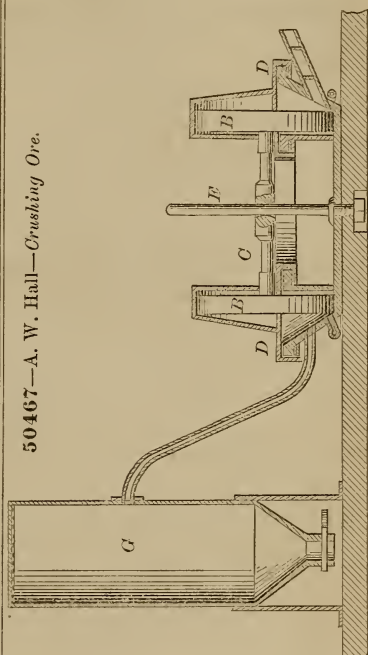
50469—W. Hart—Sewing Machine.



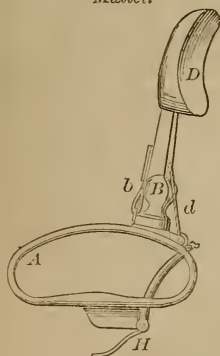
50466—S. Godfrey—Flouring Bolt.



50467—A. W. Hall—Crushing Ore.



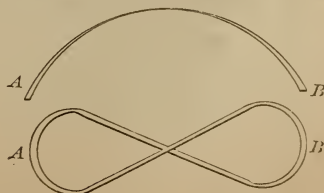
50468—J. A. Harris—Dentist's Mallet.



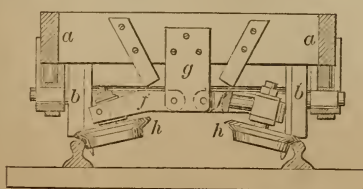
50470—G. F. Hawkes—Fountain Pen.



50471—D. Hawkins—Furniture Spring.



50472—S. C. Hawkins—Railway Car.



50473—A. Hecht—Sewing Machine Attachment.

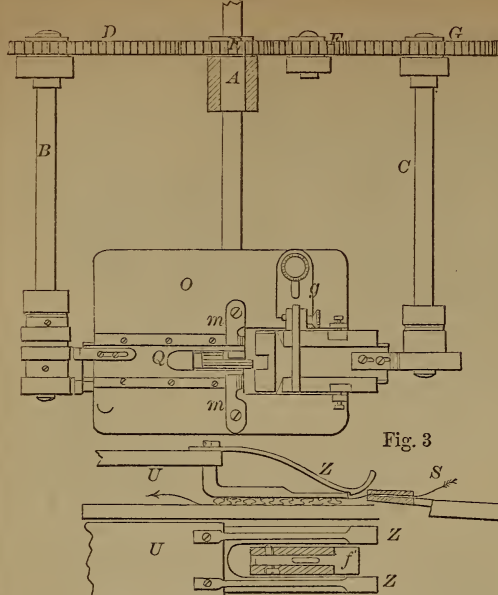
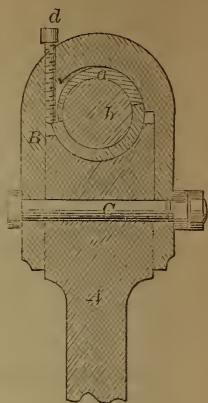
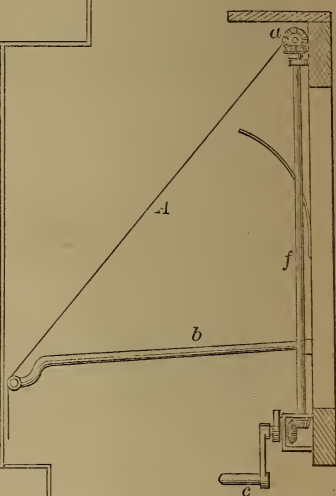


Fig. 3

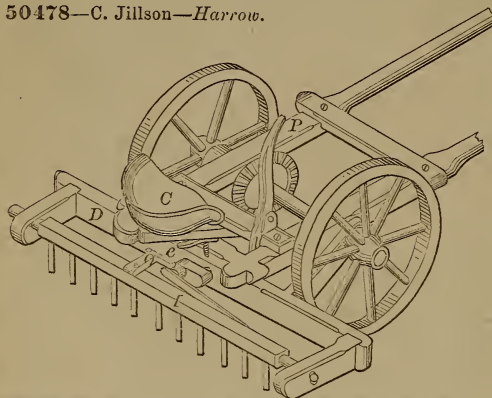
50477—T. Hill—Journal Box.



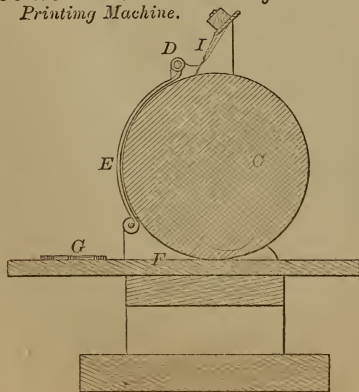
50479—E. E. Laumont—Awning.



50478—C. Jillson—Harrow.

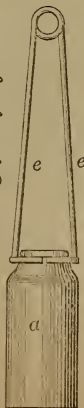


50475—H. J. Hewitt—Ruling and Printing Machine.

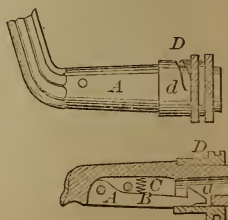


50476—

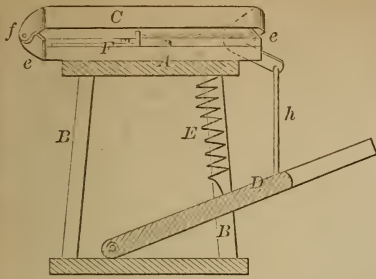
J. E. Higby—Lifting Jaws.



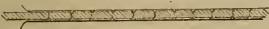
50480—C. E. Lombard—Bit Stock.



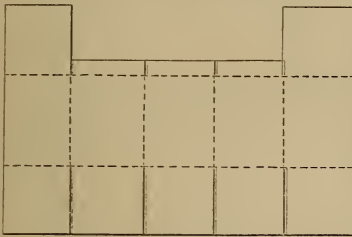
50481—H. Low—Cutting Sheet Metal.



50485—G. Munger—Substitute for Paper.



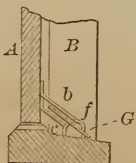
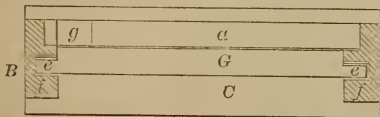
50486—G. Munger—Fruit Basket.



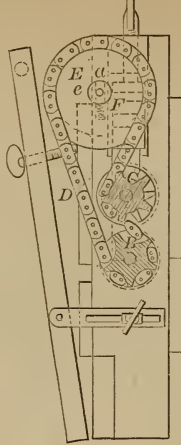
50487—J. L. Newton—Boots and Shoes.



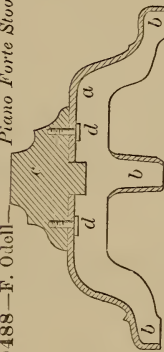
50490—A. M. Peniston—Weather Strip.



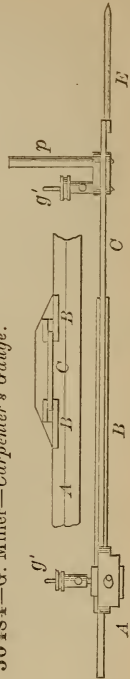
50482—D. Lyman—Clothes Wringer.



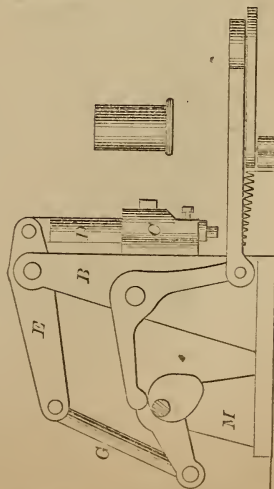
50488—E. Odell—Piano Forte Stool.



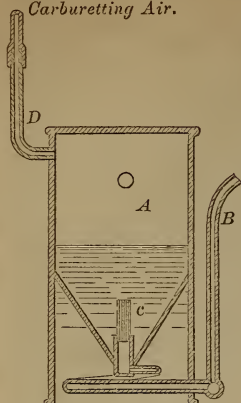
50484—G. Miller—Carpenter's Gauge.



50489—B. Payne—Cartridge Case.

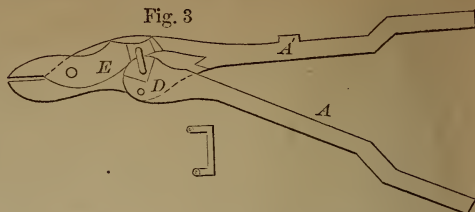


50491—E. A. Pond—
Carburetted Air.

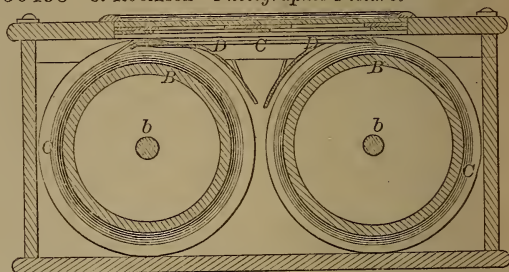


50497—G. A. Ries—Bolt Cutter.

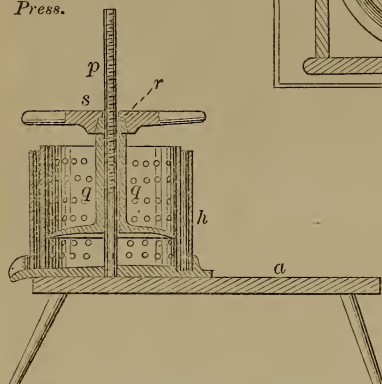
Fig. 3



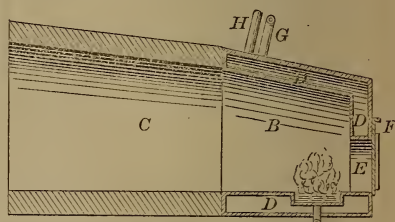
50498—C. Robinson—Photographic Pictures.



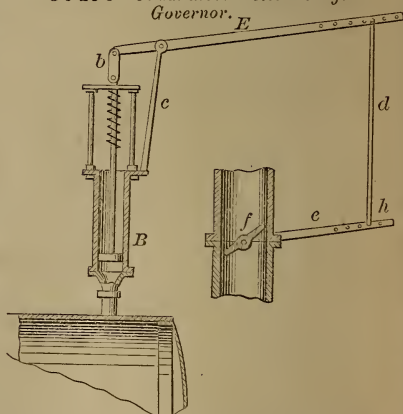
50494—J. Rayner—Lard
Press.



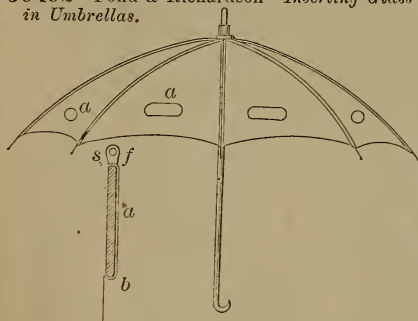
50493—A. Prenatt—Lampblack.



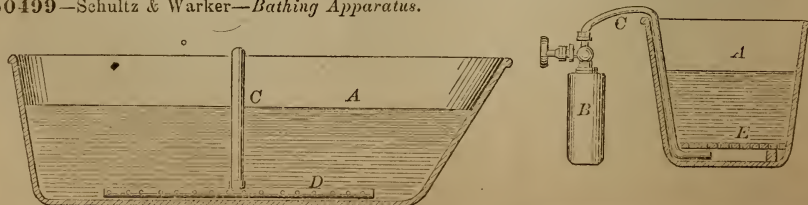
50496—J. M. Rees—Steam Engine
Governor.



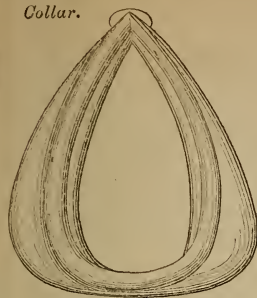
50492—Pond & Richardson—Inserting Glass
in Umbrellas.



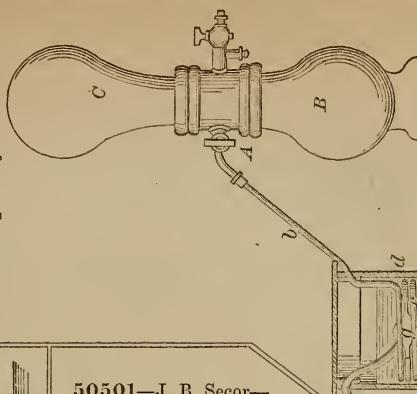
50499—Schultz & Warker—Bathing Apparatus.



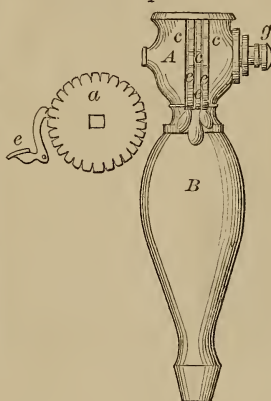
50505—A. A. Stannard—*Horse Collar.*



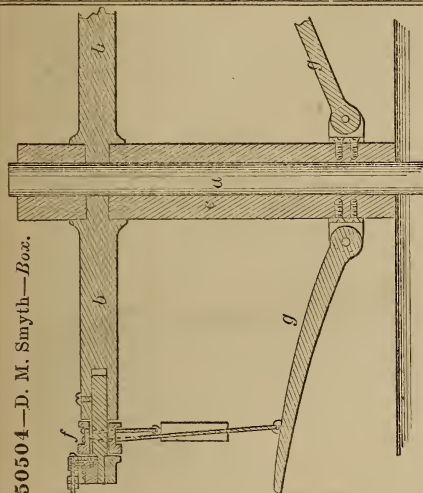
50500—Schultz & Warker—*Liquid Injector.*



50501—J. B. Secor—*Hand Stamp.*

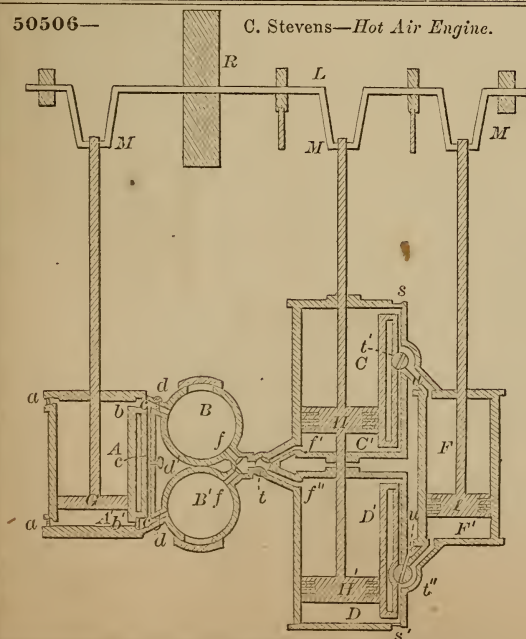


50504—D. M. Smyth—*Box.*

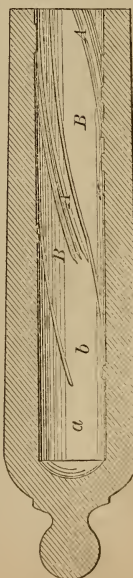


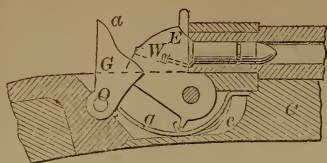
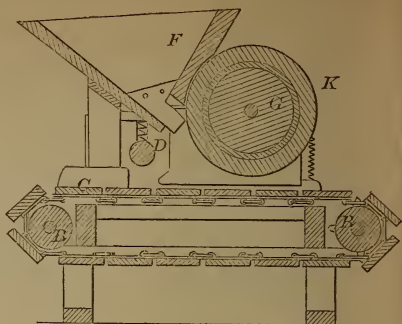
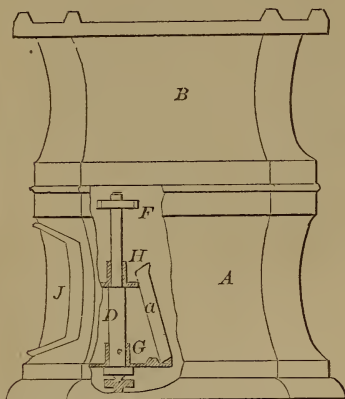
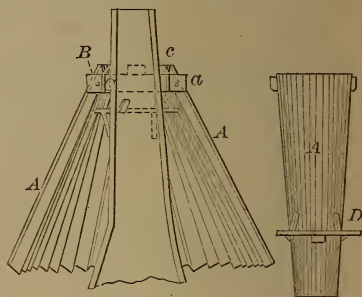
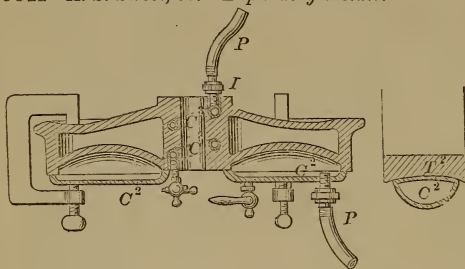
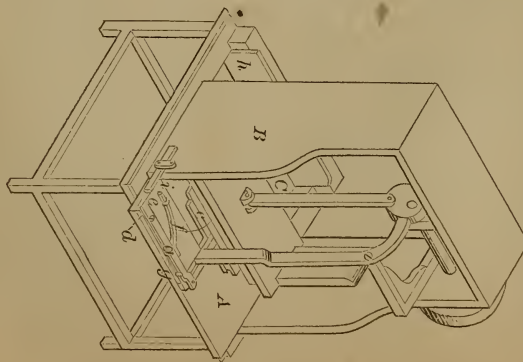
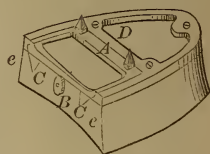
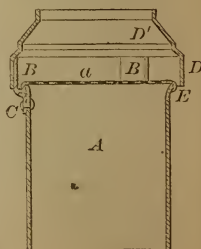
50506—

C. Stevens—*Hot Air Engine.*

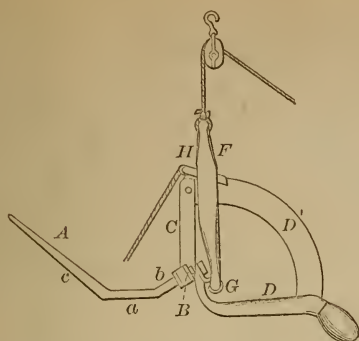


50502—J. Seipel—*Rifling Ordnance.*

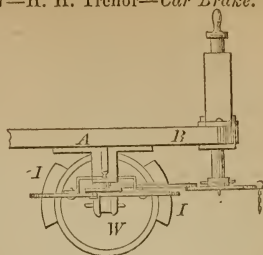


50507—J. Stillman—*Fire Arm.*50508—St. John & Horst—*Brick Machine.*50510—H. D. Stover—*Lathe Stand.*50509—C. St. John—*Lamp Shade.*50511—A. S. Sweet, Jr.—*Expanding Metals.*50512—T. Symonds—*Ice Creeper.*50515—W. A. Thompson—*Gas Stove Burner.*50514—T. Tebbetts—*Paper Collars.*

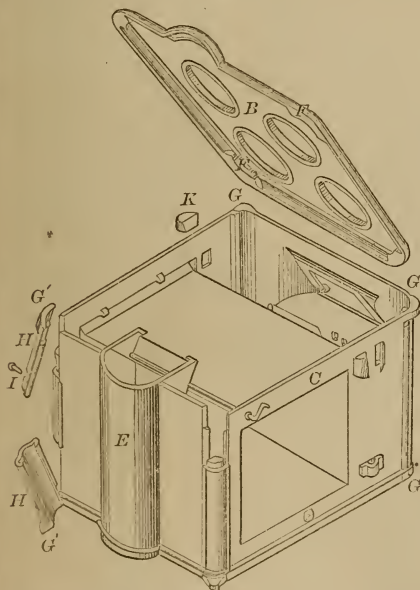
50516—H. Totten—Horse Hay Fork.



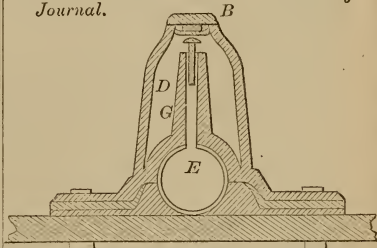
50517—H. H. Trenor—Car Brake.



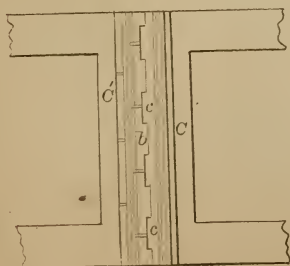
50519—J. Van—Cook Stove.



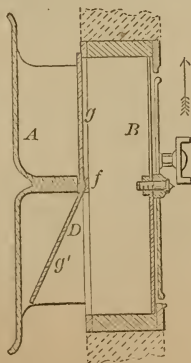
50520—W. Van Anden—Lubricating Journal.



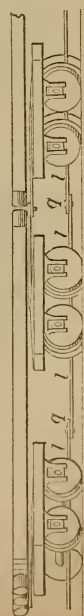
50521—Van Velthoven & Hazzard—Photographic Album.



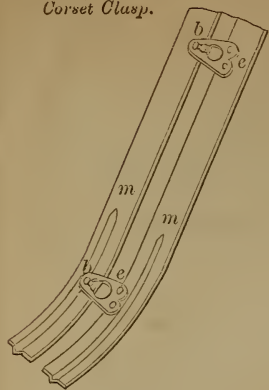
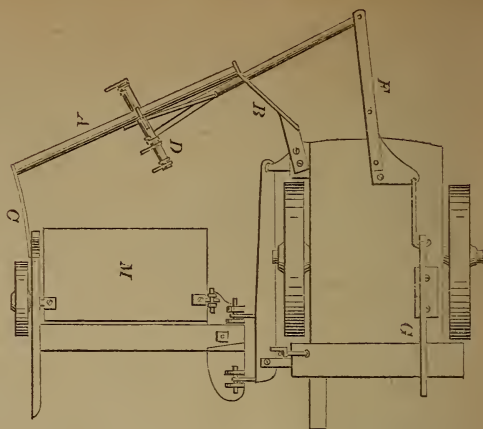
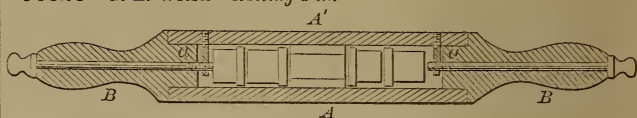
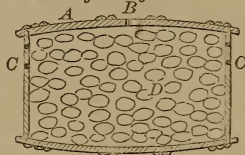
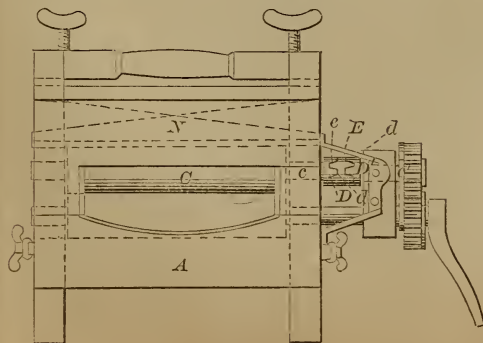
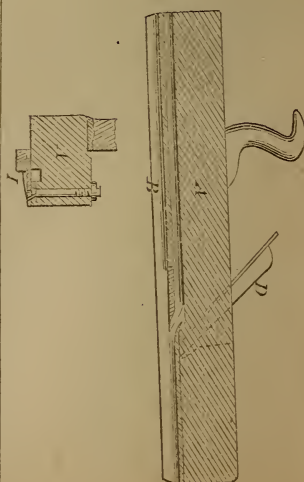
50522—A. P. Vining—Car Ventilator.



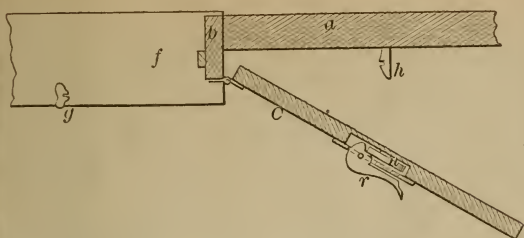
50518—H. H. Trenor—Axle.



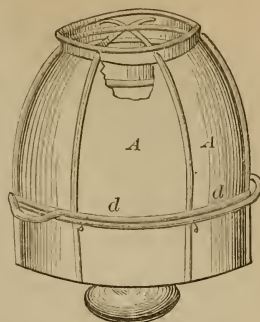
50524—

Wallace, D. G. & H. E. Fowler
Corset Clasp.50523—J. Bacon—*Illustrator Rule.*50528—G. L. Witsil—*Rolling Pin.*50527—S. D. White—*Slide Valve.*50526—C. Wesener—*For Making Vinegar.*50531—J. O. Couch—*Wringing Machine.*50530—L. C. Bliss—*Bench Plane.*

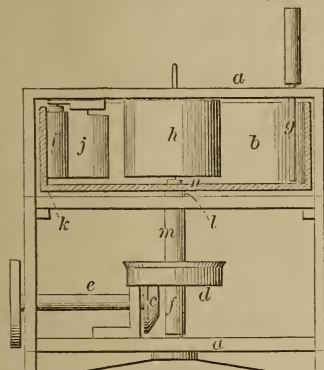
50532—G. K. Dearborn—*Blind Fastener*.



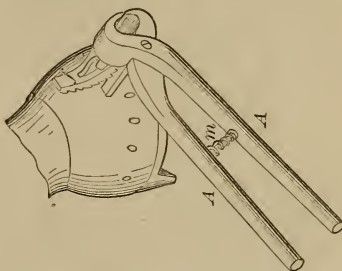
50538—W. Westlake—*Lantern*.



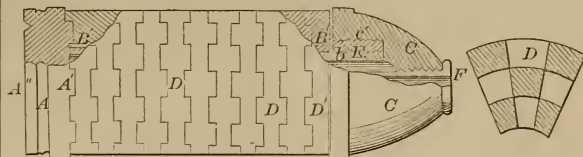
50534—H. Halvorson—*Amalgamator*.



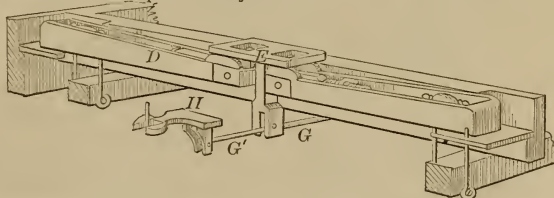
50539—D. A. Wilson—*Clinching Tool*.



50535—J. H. Hiscock—*Explosive Shell*.



50537—E. Sampson—*Platform Scale*.



50536—T. J. Powers—*Metallic Cartridge*.

Fig. 3



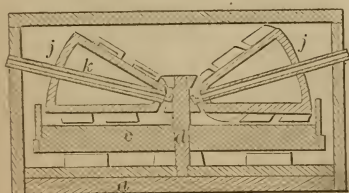
Fig. 2



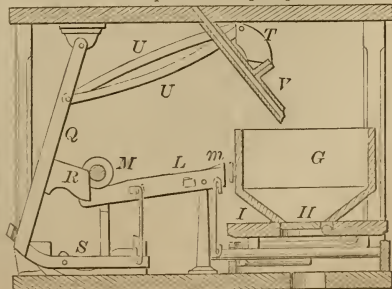
Fig. 1

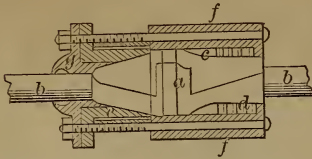
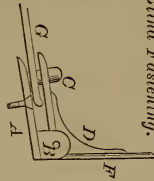
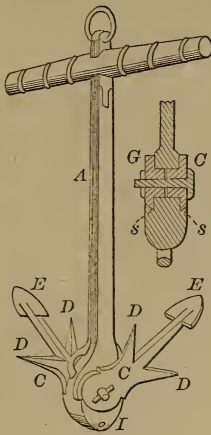
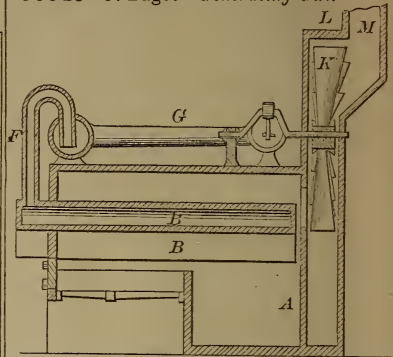
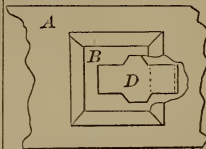
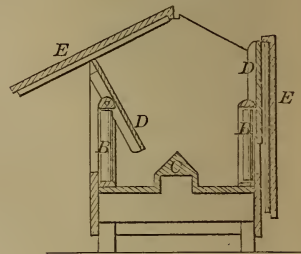
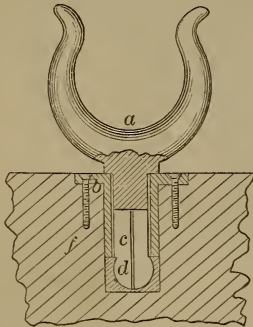
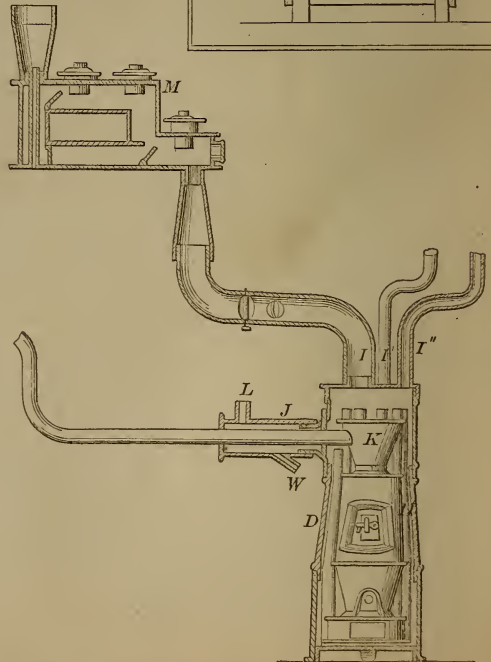
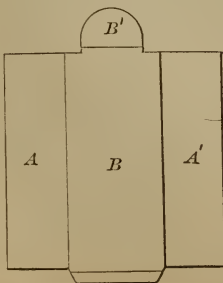


50533—H. Halvorson—*Treating Ores*.

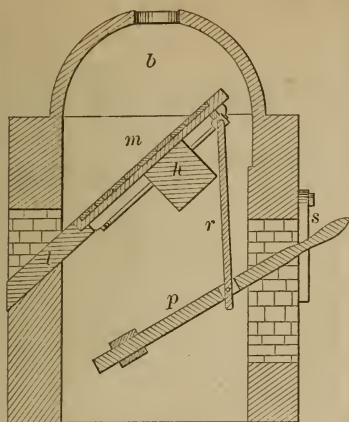


50540—E. Sampson—*Weighing Grain*.

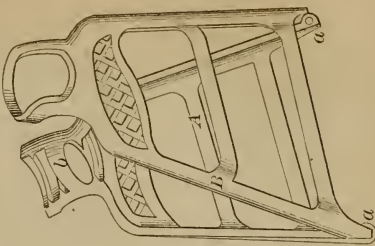


50541—V. Duterne—*Stuffing Box.*50543—Masson & Cary—*Pen Holder.*50542—C. E. Marshall—*Anchor.*50546—A. C. Arnold—*Blind Fastening.*50548—J. Bagot—*Generating Gas.*50545—Thomas & Mast—*Grain Drill.*50550—J. S. Beals—*Sheep Rack.*50547—M. L. Babb—*Row Lock.*50551—S. Bennett—*Utilizing Heat.*50549—E. L. Barrett—*Envelope.*

50552—J. Bowers—Coke Oven.



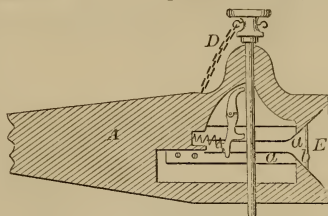
50554—J. D. Browne—Broom Head. *d*



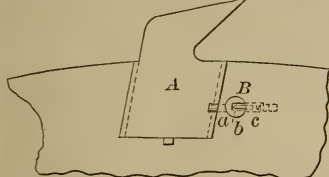
50555—S. W. Burcaw—Plate Holder.



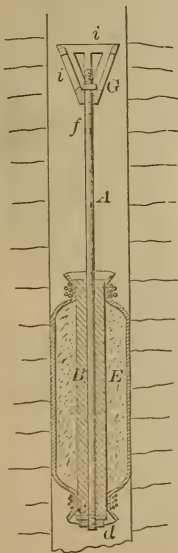
50559—G. G. Campbell—Car Coupling.



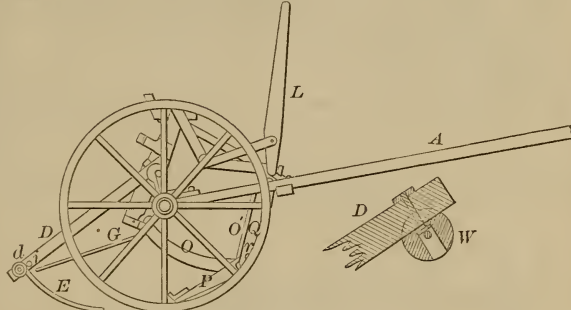
50553—I. S. & C. N. Brown—Saw.



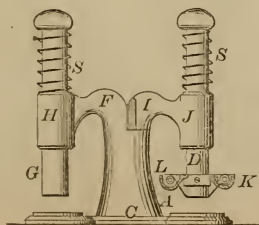
50558—Calkins & Fraser—Well Packing.



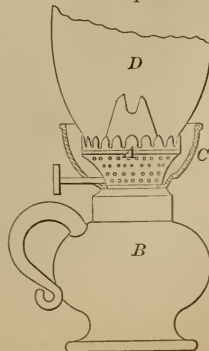
50557—G. E. Burt—Horse Rake.

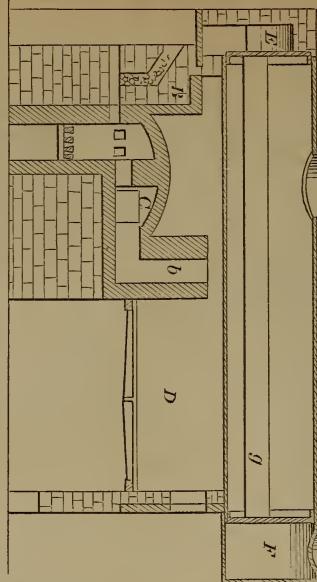
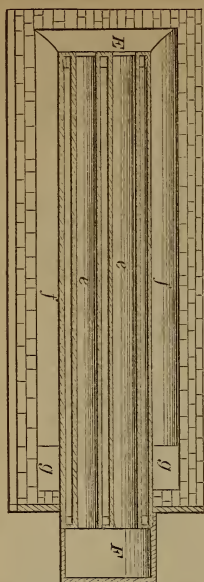


50556—W. Burrows—Hand Stamp.

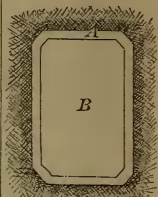


50560—J. B. Capewell—Lamp.

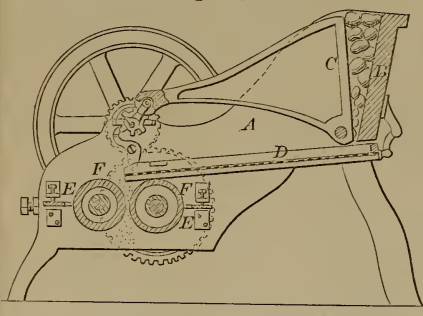




50562—

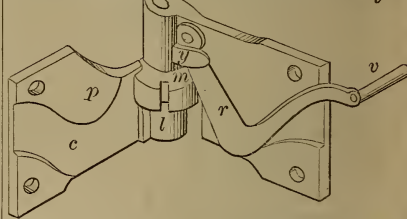
H. J. Davison—Welding
Furnace.50561
J. Cartisser—
Preparing Pottery,
&c.

50563—M. B. Dodge—Quartz Crusher.

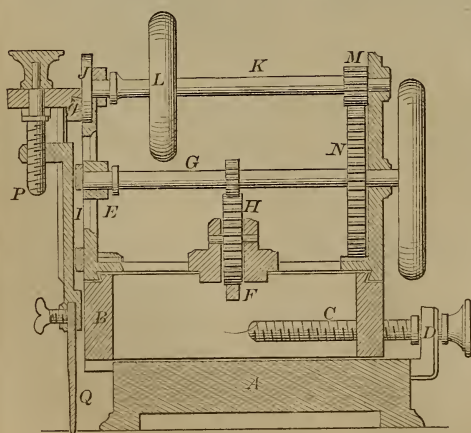
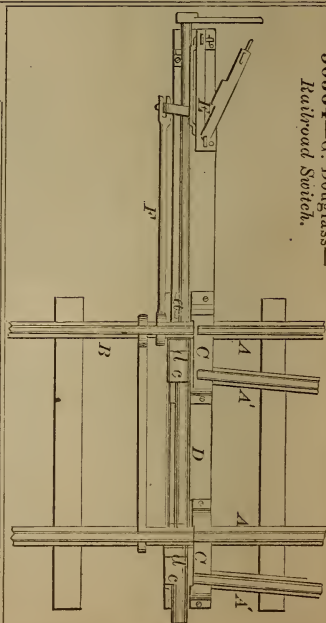


50566—

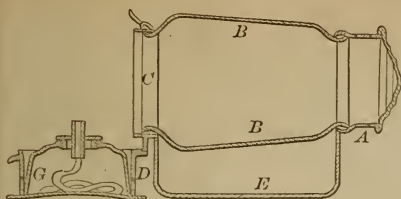
S. R. Dummer—Hinge.



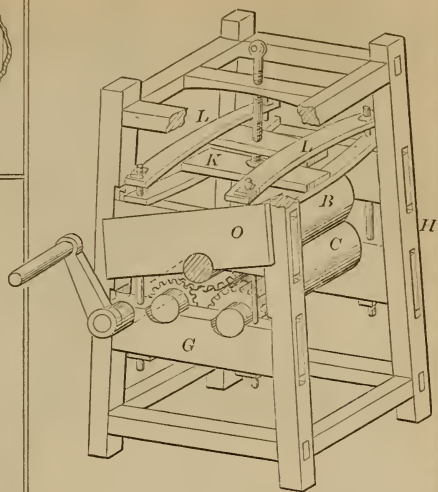
50565—Dryden & Montgomery—Mill Stone Dressing.

50564—G. Douglass—
Railroad Switch.

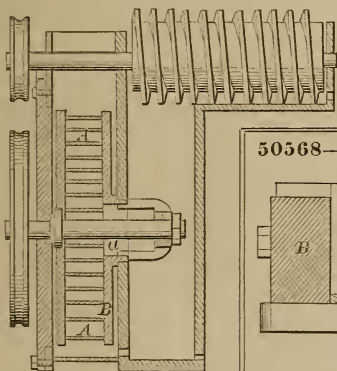
50567—R. Dunham—Lantern.



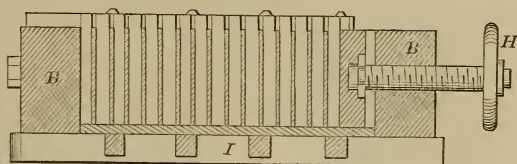
50570—P. Fitzgerol—Sugar Mill.



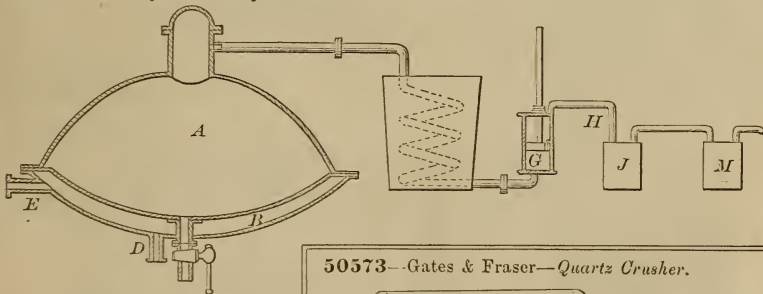
50572—P. W. Gates—Amalgamator.



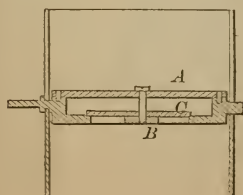
50568—L. Du Pont—Gunpowder Press.



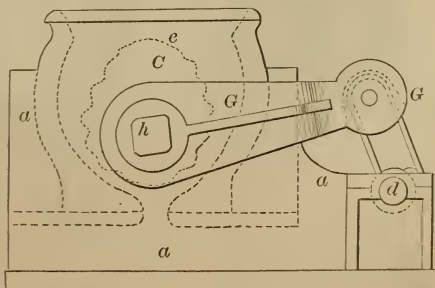
50571—H. Fleury—Distilling Petroleum.

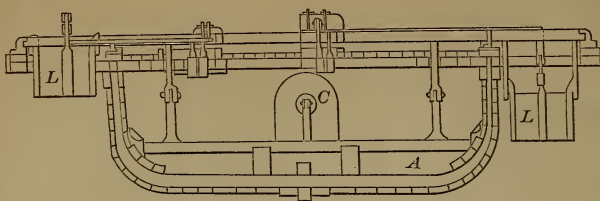
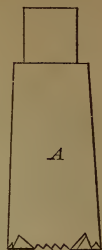
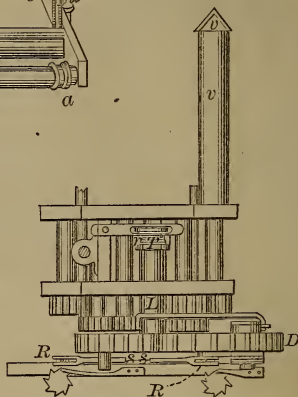
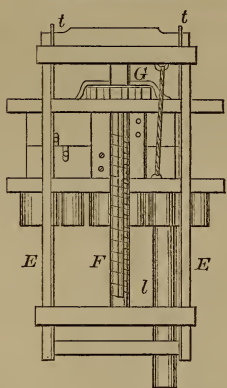
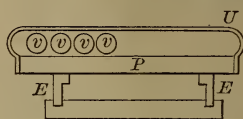
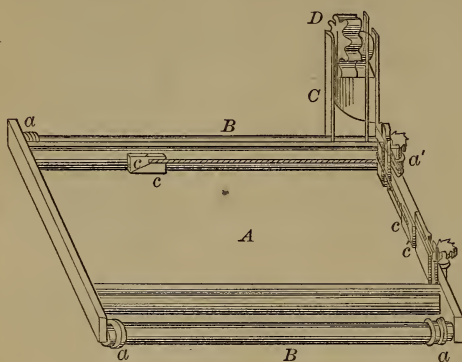
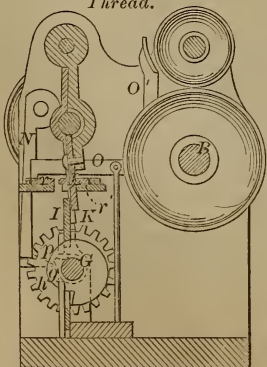
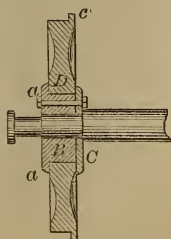
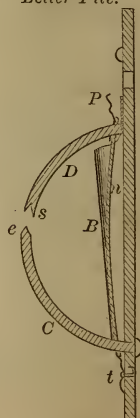


50569—A. E. Elmer—Damper.

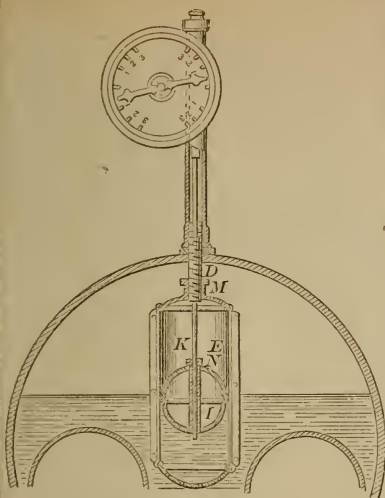


50573—Gates & Fraser—Quartz Crusher.

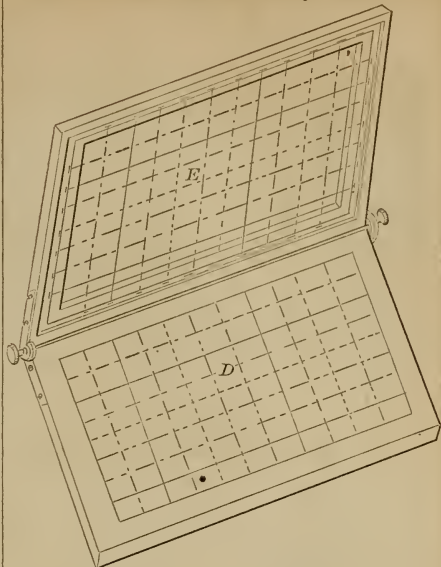


50574—A. Gemünder—*Propelling Apparatus.*50576—E. J. Graham—*Rock Drill.*50577—Grier & Boyd—*Mining Coal.*50575—A. B. Glover—*Spooling Thread.*50579—J. Harris—*Car Wheel.*50580—J. W. Hauxhurst—*Letter File.*

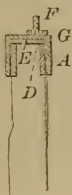
50581—C. F. Henis—*Water Gauge.*



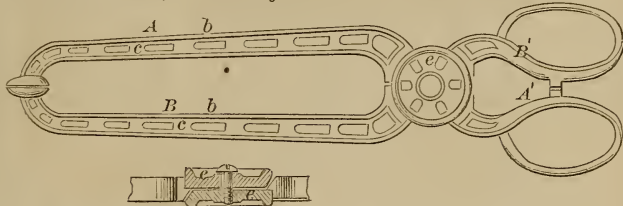
50583—C. D. Hillman—*Drawing Board.*



50582—
G. G. Hickman—
Safety Pocket.



50584—B. Holly—*Fire Tongs.*



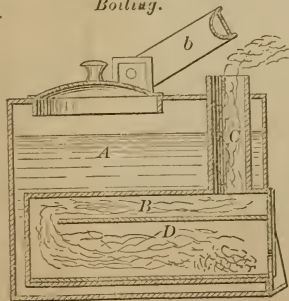
50589—W. Howard—*Scissors.*



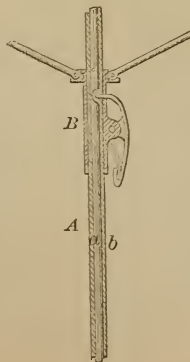
50585—D. E. Holmes—*Trace Fastening.*



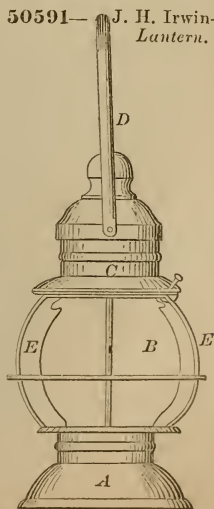
50586—H. W. Horton—*Water Boiling.*



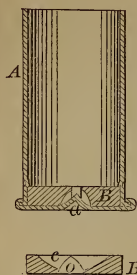
50587—H. Hotchkiss—
Umbrella.



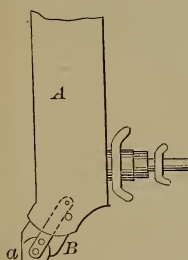
50591—J. H. Irwin—
Lantern.



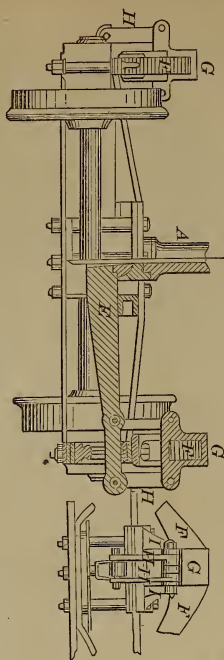
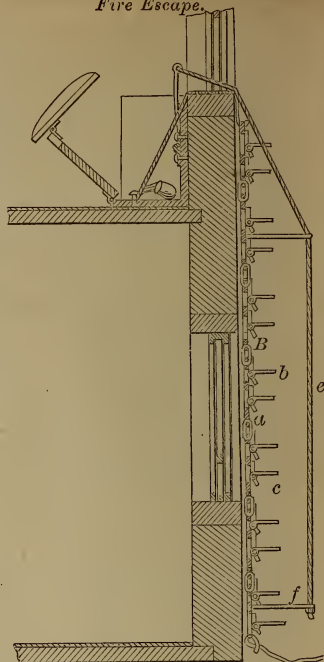
50592—

Jackson & Pusey—Metallic Cartridge.

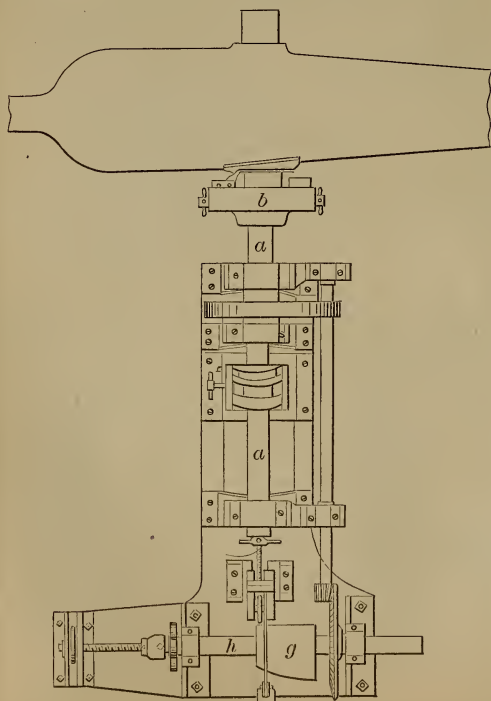
50595—

J. Jervis—File Cutting.

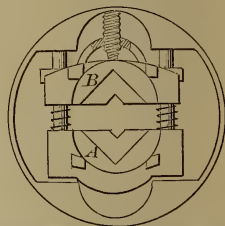
50594—C. F. Jauriel—Car Truck.

50596—C. J. & E. W. Jones—*Fire Escape.*

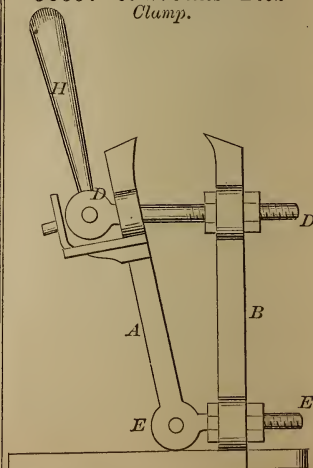
50598—E. Kaylor—Turning Cannon.



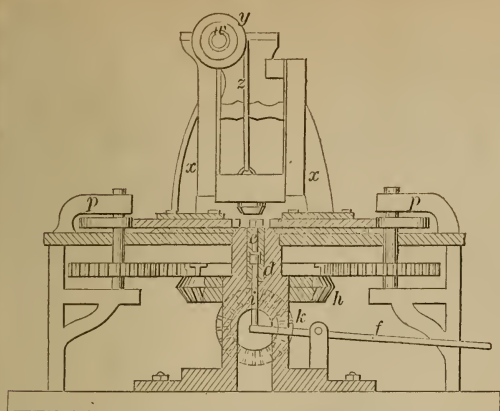
50593—S. T. Jackson—Chuck.



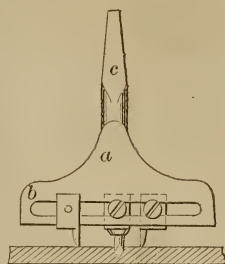
50597—J. W. Jones—Book Clamp.



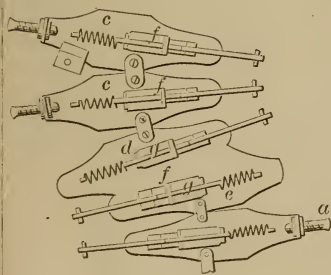
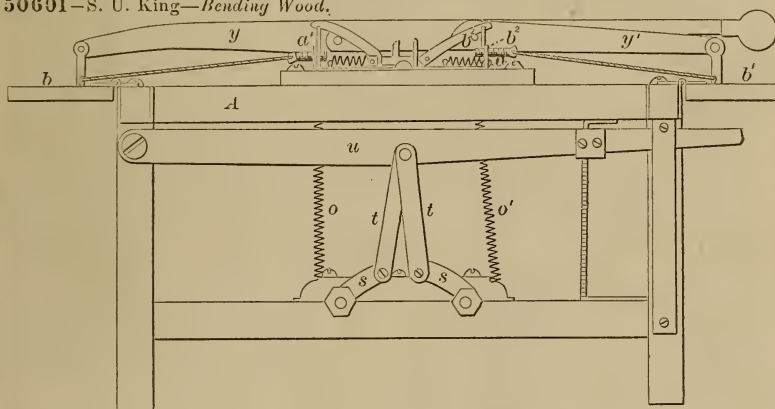
50599—E. Kaylor—Bolt Heading.



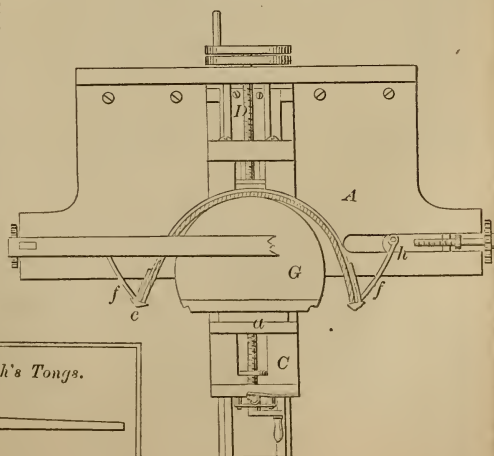
50600—King & Smith—
Cutting Washers.



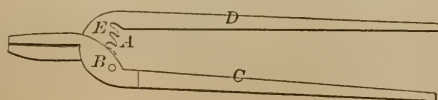
50601—S. U. King—Bending Wood.

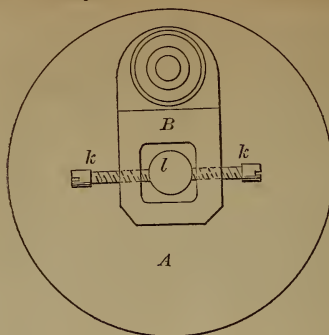
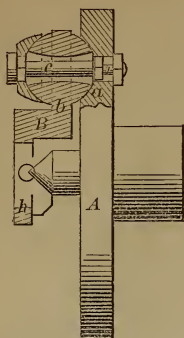
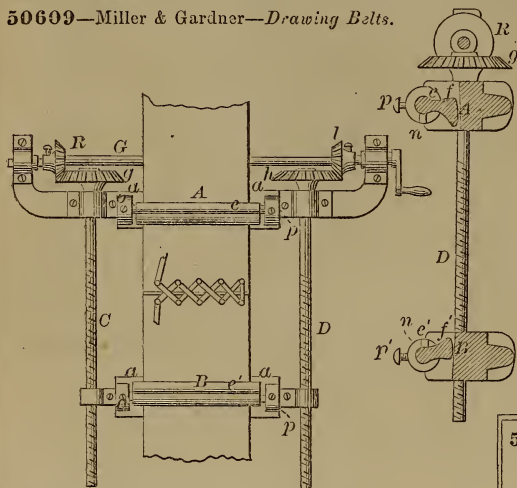
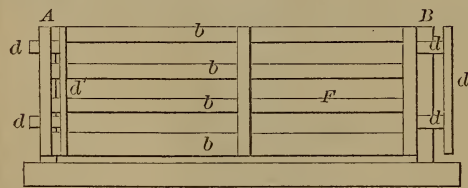
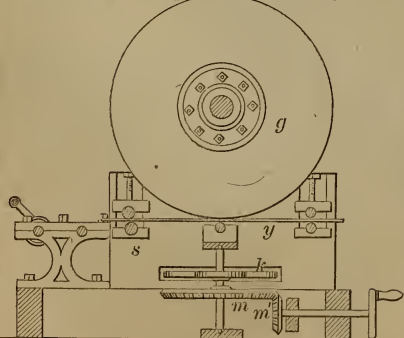
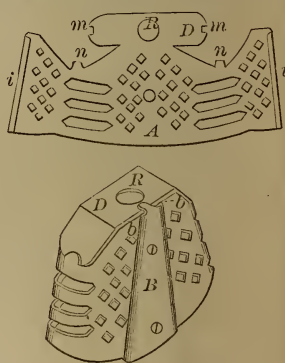
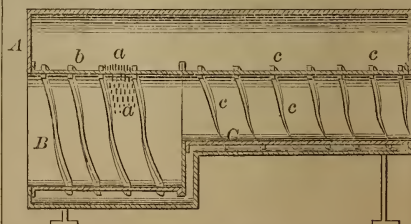


50602—G. Kriebel—Wood Bending.



50603—C. W. Le Count—Blacksmith's Tongs.



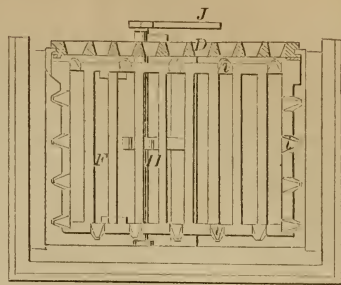
50604—C. W. Le Count—*Lathe Dog*.50607—S. M. Longley—*Hoisting Apparatus*.50609—Miller & Gardner—*Drawing Belts*.50605—J. C. Lee—*Fence and Gate*.50606—W. J. Lippincott—*Grinding Saws*.50610—J. A. Miller—*Broom Head*.50611—J. A. Miller—*Boiler*.

50612—C. N. Morris—*Printing.*

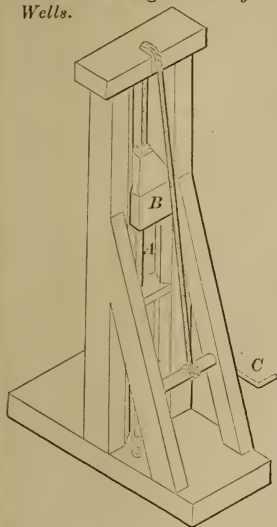
Chas. N. Morris & Co.
—
MERCHANTS
Steam Printing Works,
CINCINNATI.

N

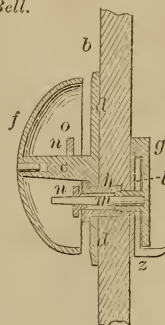
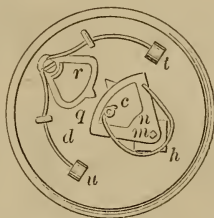
50613—R. Moss—*Stove Grate.*



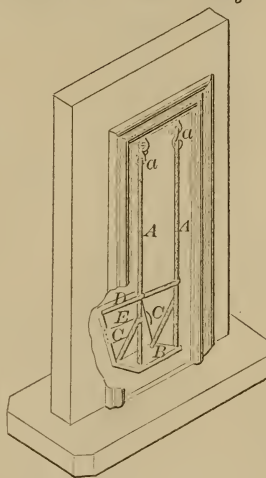
50614—B. Mudge—*Sinking Wells.*



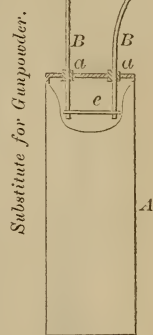
50616—C. S. Nickelson—*Door Bell.*



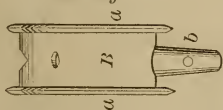
50618—L. F. Noe—*Swing.*



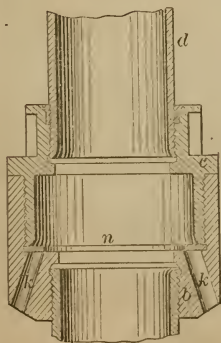
50617—A. Nobel—



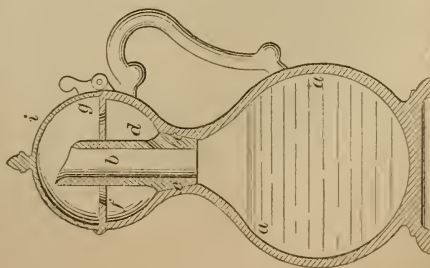
50615—Neely & Bishop—*Thill Tug.*

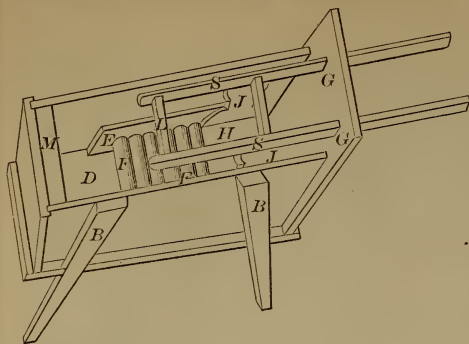
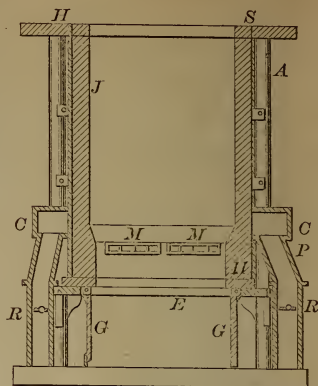
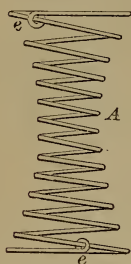
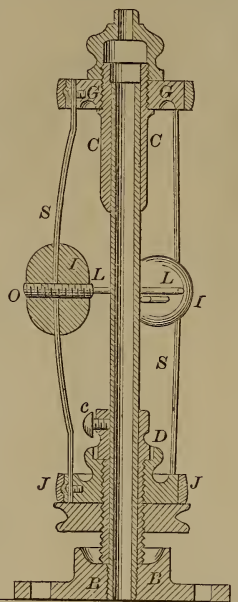
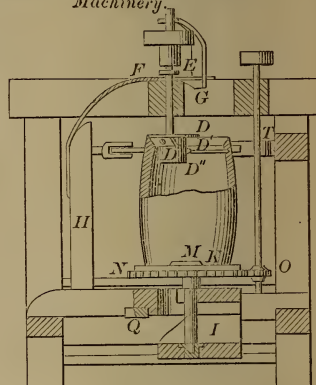
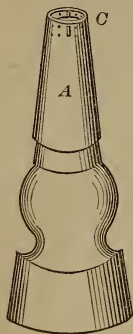
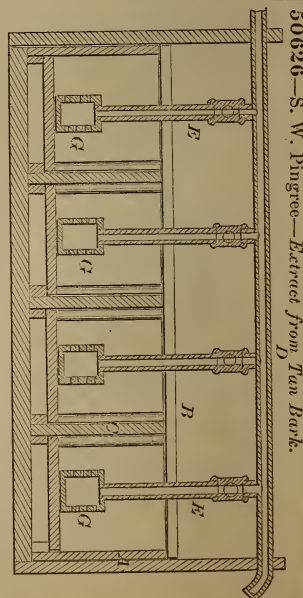
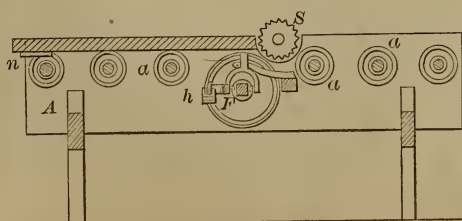


50619—J. Old—*Pipe Coupling.*

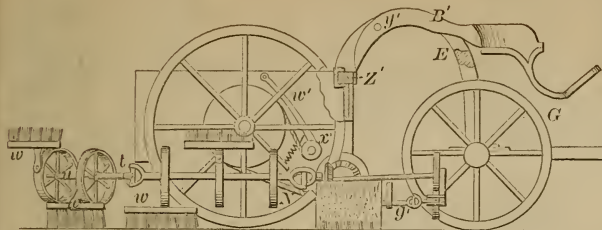


50620—Parise & Mac Cord—*Molasses Pitcher.*

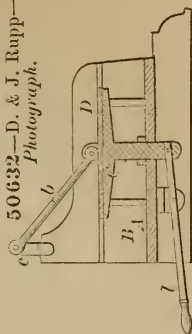


50621—Parsons & Dane—*Washing Machine.*50623—A. Pevy—*Cupola Furnace.*50622—F. C. Payne—*Spiral Spring.*50624—T. R. Pickering—*Steam Engine Governor.*50625—G. W. Pierce—*Barrel Machinery.*50628—C. Ritter—*Gas Burner.*50627—T. Reeves—*Sawing Machine.*50626—S. W. Pingree—*Extractor from Tan Bark.*

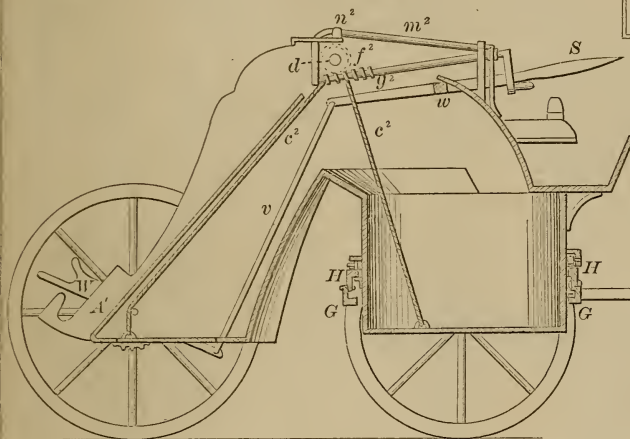
50629—A. J. Roberts—*Street Sweeping Machine.*



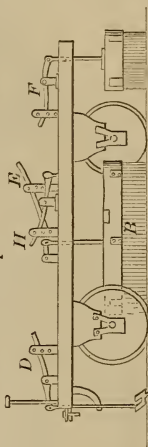
50632—D. & J. Rupp—
Photograph.



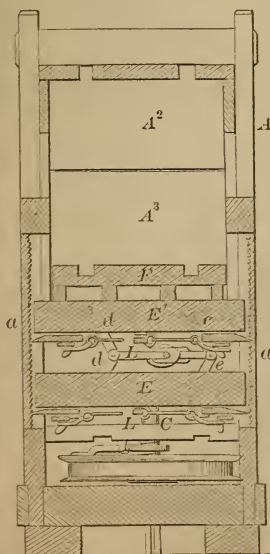
50630—A. J. Roberts—*Street Sweeping Machine.*



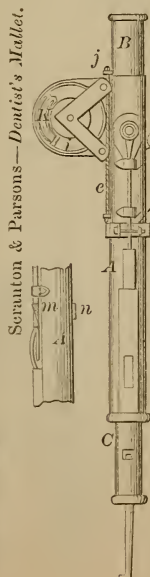
50634—G. C. Sharp—Railroad Track Cleaner.



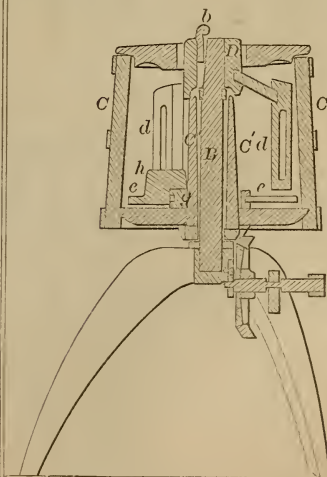
50635--W A. Shepard--
Cotton Press.

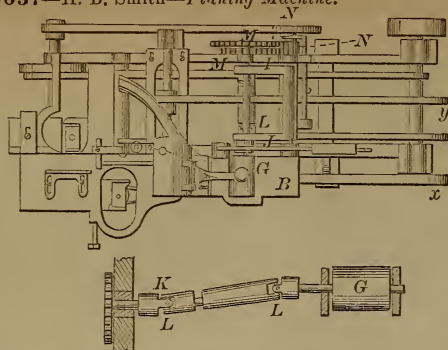
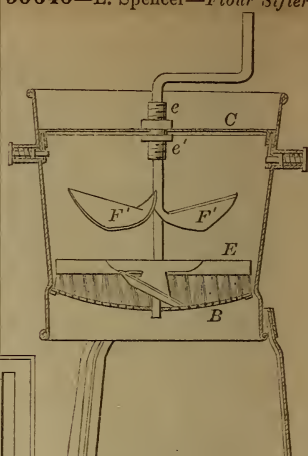
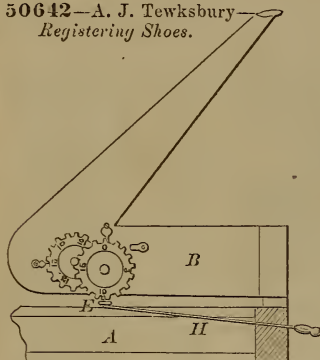
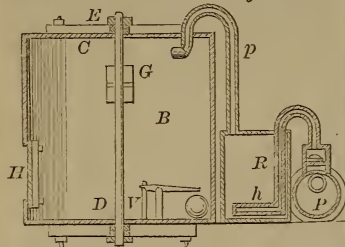
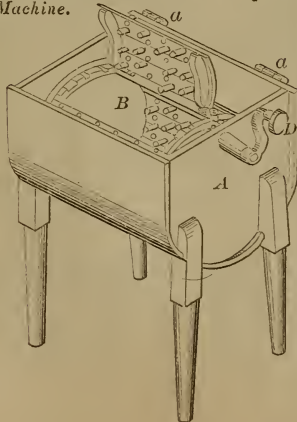
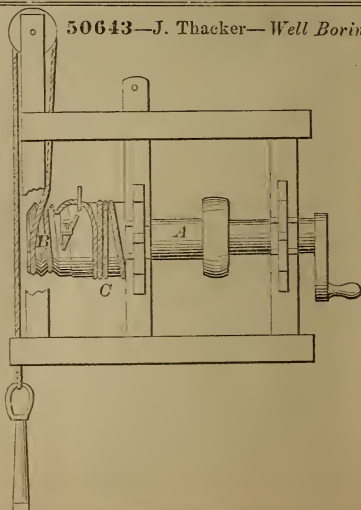


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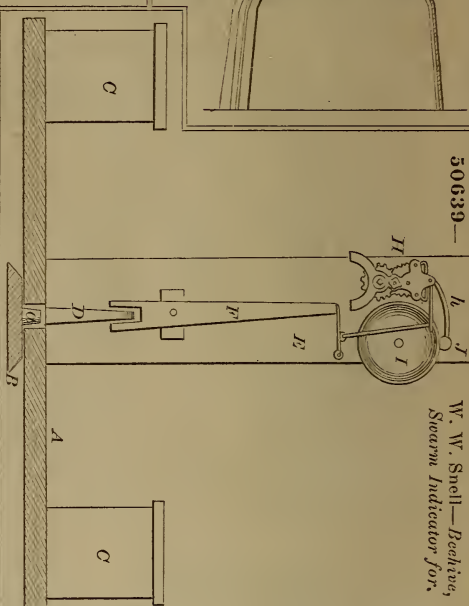


50631—W. Robinson—*Churn.*

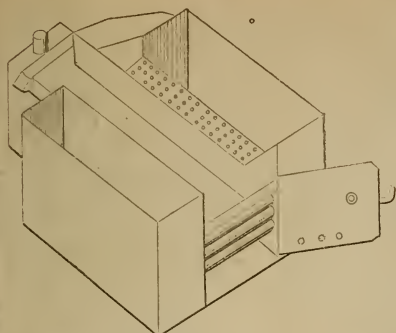


50637—H. B. Smith—*Planing Machine.*50640—E. Spencer—*Flour Sifter.*50642—A. J. Tewksbury
Registering Shoes.50641—O. Stone—*Treating Diseases.*50638—H. E. Smith—*Washing Machine.*50643—J. Thacker—*Well Boring.*

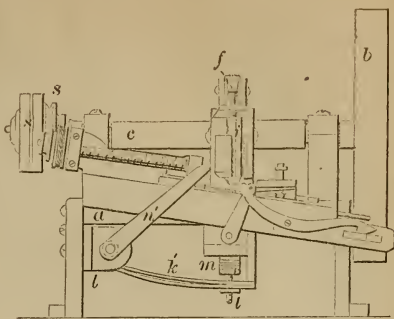
50639—

W. W. Snell—*Beehive,
Stearn Indicator for.*

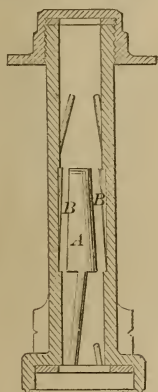
50644—L. Thomas—*Evaporator.*



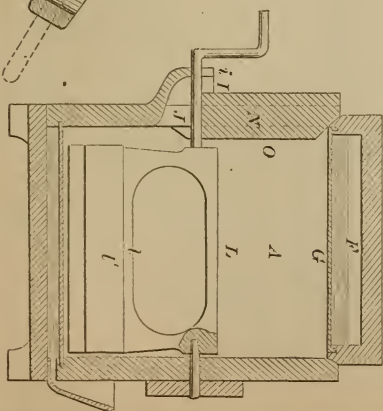
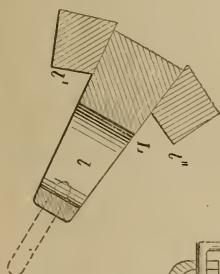
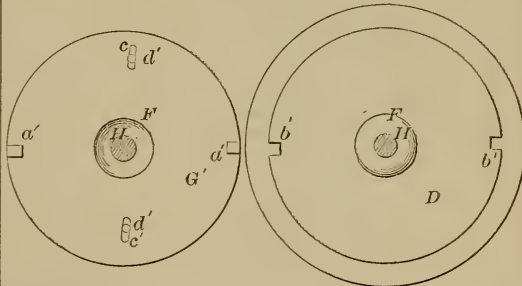
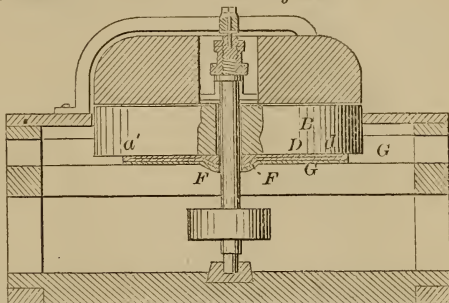
50647—M. D. Whipple—*File Cutting.*



50648—F. Wood—*Axle Box.*

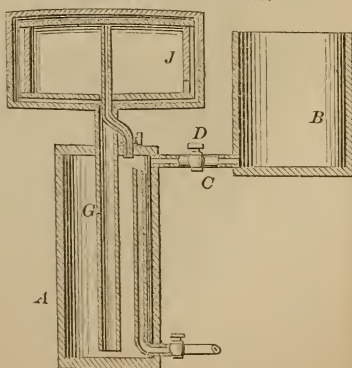


50646—C. T. Weston—*Grinding Mill.*

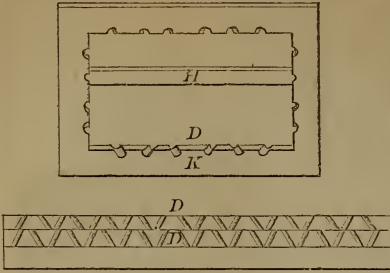


50645—J. Thompson—*Churn.*

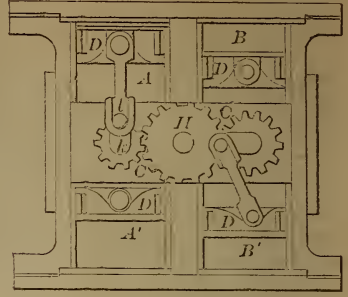
50649—J. O. Woodruff—*Applying Solutions to Oil Barrels.*



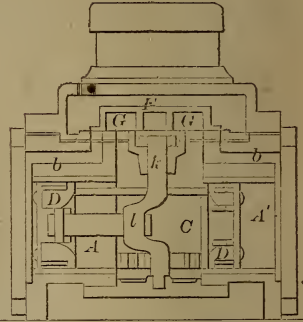
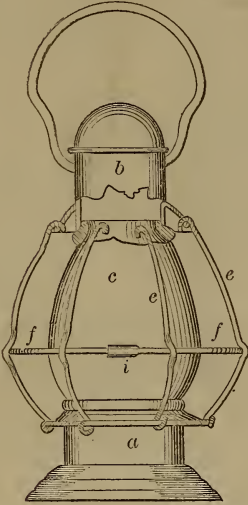
50650—R. Yeamans—*Printers' Rack.*



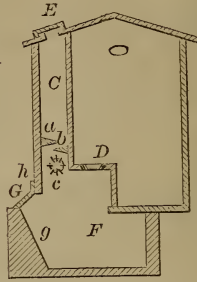
50651—J. S. Barden—*Hydraulic Engine.*



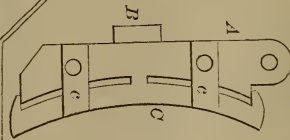
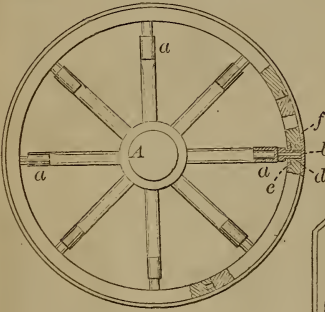
50653—Brown & Lowry—*Lantern Guard.*



50654—E. E. Clarke—*Clarke—Prisies.*

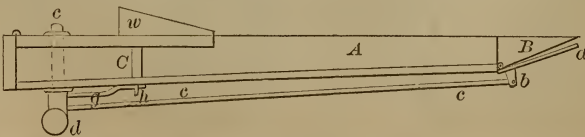


50655—C. J. Crane—*Wheel.*



50656—S. D. Danfield—*Brake Shoe.*

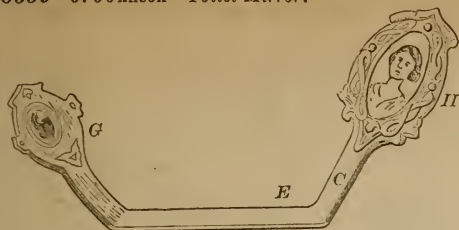
50657—H. V. Davis—*Seed Planter.*



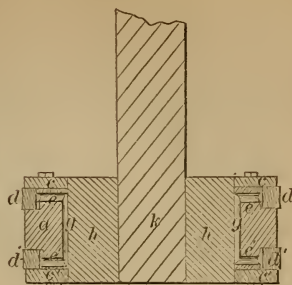
50652—R. Booklen—*Letter File.*



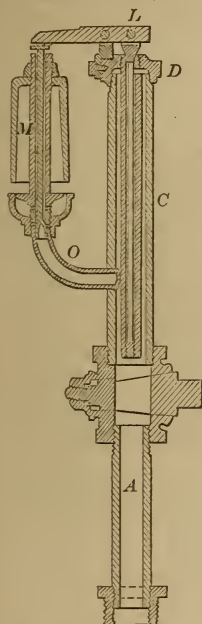
50559—J. Johnson—*Toilet Mirror.*



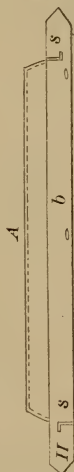
50661—J. Myers—*Piston Packing.*



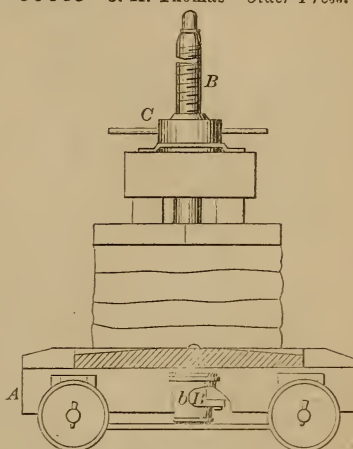
50660—Mead & Maggi—*Low Water Detector.*



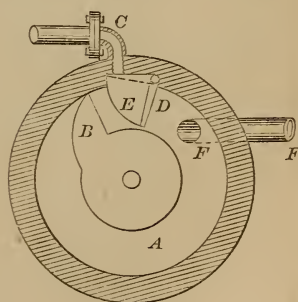
50663—S. J. Shaw—*Paper Collar.*



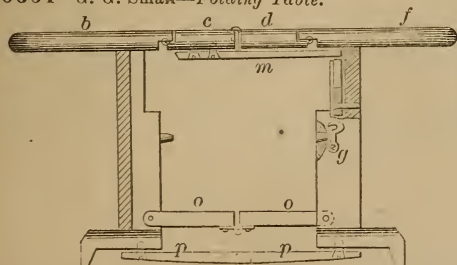
50665—C. H. Thomas—*Cider Press.*



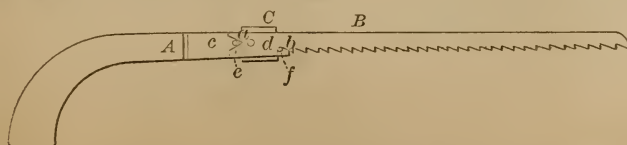
50666—J. T. Warren—*Rotary Engine.*



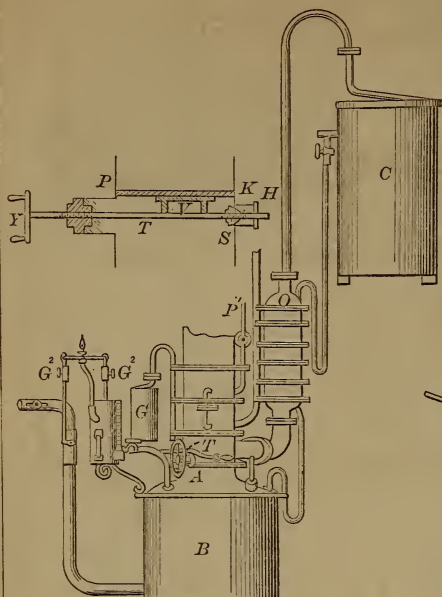
50664—G. G. Small—*Folding Table.*



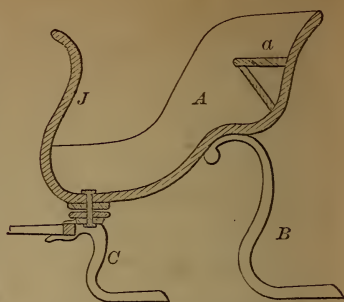
50667—Welch & Armington—*Hand Saw.*



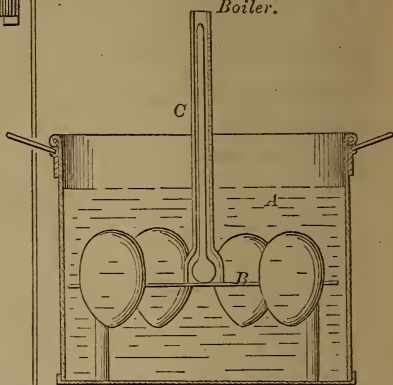
50668—Foubert & Béquet—*For Rectifying Alcohol.*



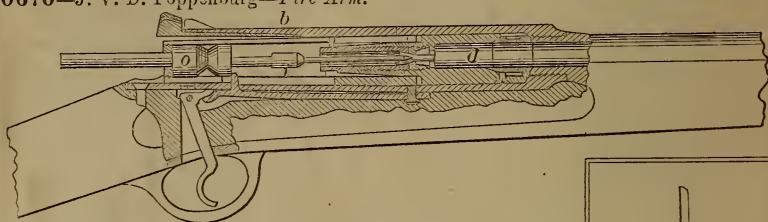
50672—A. Arneman—*Sleigh.*



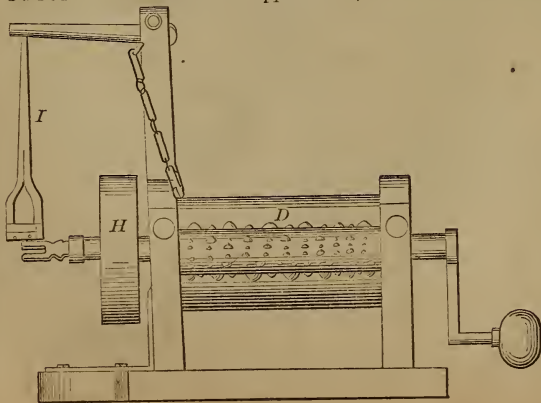
50669—Malapert & Des Courtis—*Egg Boiler.*



50670—J. V. D. Poppenburg—*Fire Arm.*



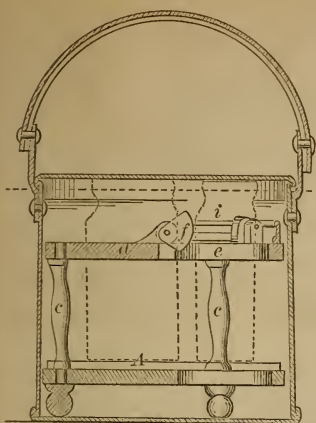
50671—E. F. Alexander—*Apple Parer, &c.*



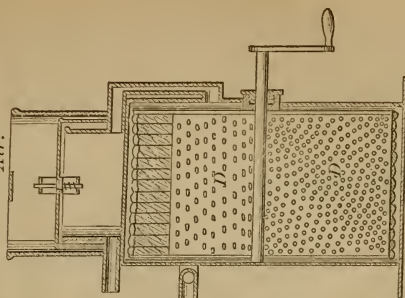
50673—H. Aschenbach—*Buckle.*



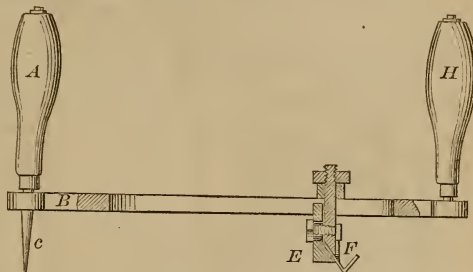
50674—K. E. Ashley—*Preserve Jar Stand.*



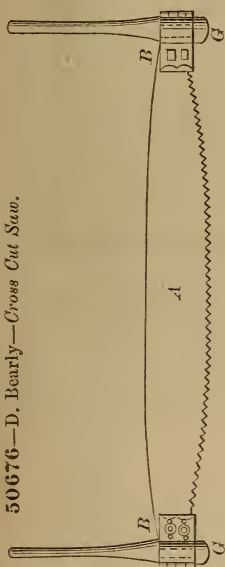
50675—J. A. Bassett—*Carbureting App.*



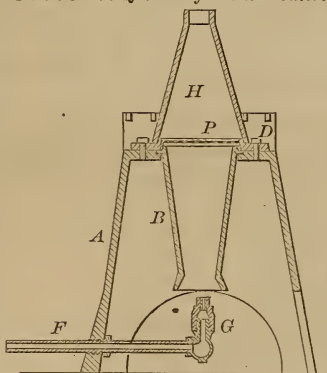
50677—W. H. Bennett—*Barrel Head Cutter.*



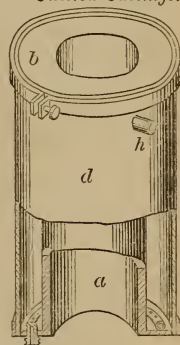
50676—D. Bearly—*Cross Cut Saw.*



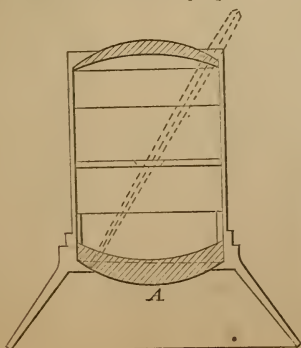
50678—J. Q. Birkey—*Gas Heater.*



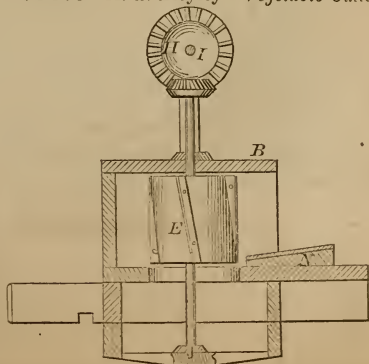
50680—
Bollman & Neemes—*Chilled Castings.*



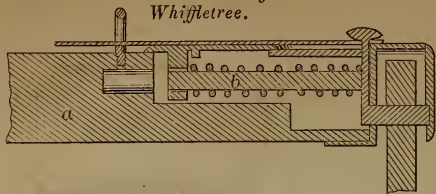
50681—C. B. Boyle—*Photographic Lens.*



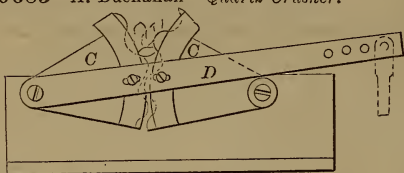
50679—A. T. Bleyley—*Vegetable Cutter.*



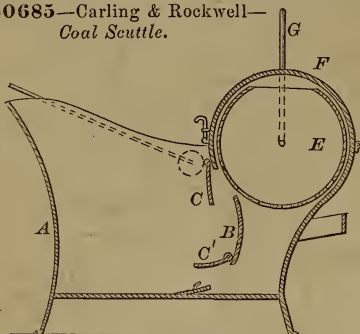
50682—E. Brown—Attaching Trace to Whiffletree.



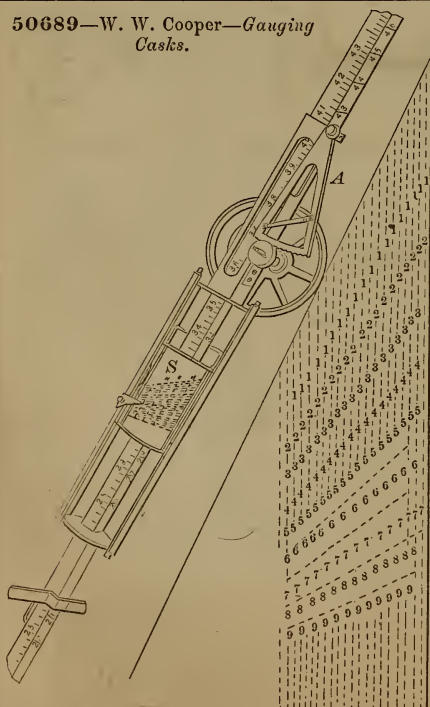
50683—A. Buchanan—Quartz Crusher.



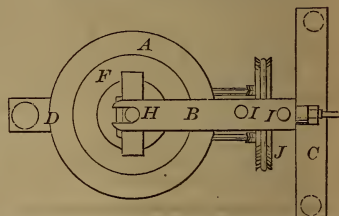
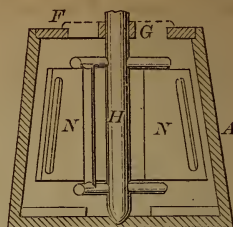
50685—Carling & Rockwell—Coal Scuttle.



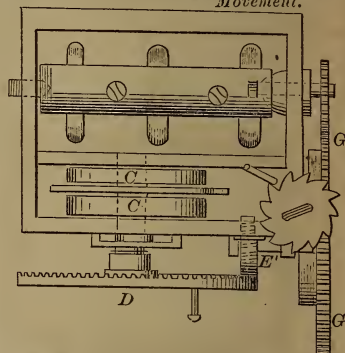
50689—W. W. Cooper—Gauging Casks.



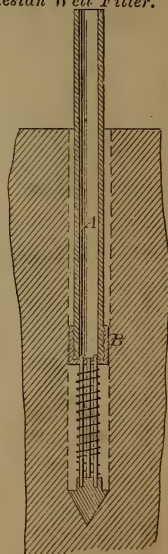
50684—Burke & Gassetts—Churn.



50687—I. A. Clippinger—Mechanical Movement.



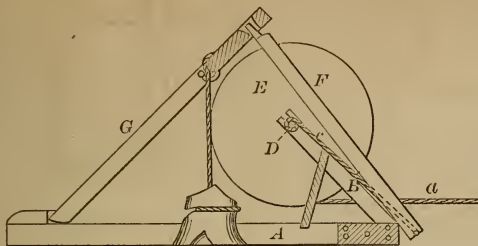
50686—Clary & Torrey—Artesian Well Filter.



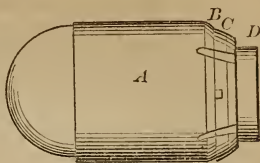
50688—J. Cogan—Strap Ring.



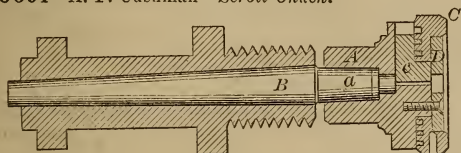
50690—T. Crane—*Stump Extractor.*



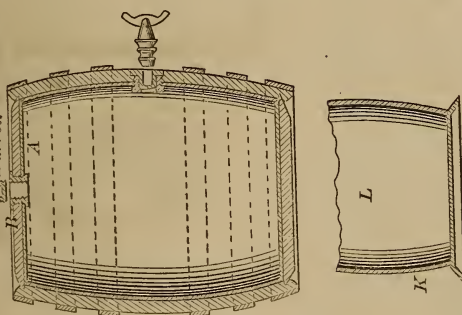
50692—F. A. Dana—*Sabot for Projectiles.*



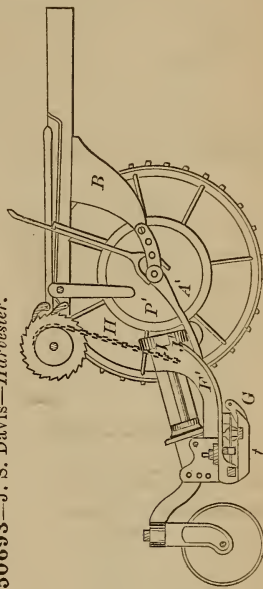
50691—A. F. Cushman—*Scroll Chuck.*



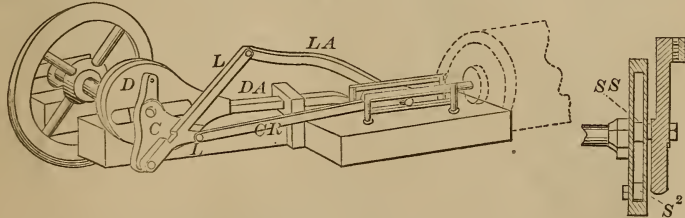
50694—Day & Chapman—*Petroleum Barrel.*



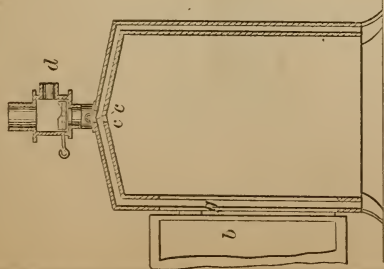
50693—J. S. Davis—*Harvester.*



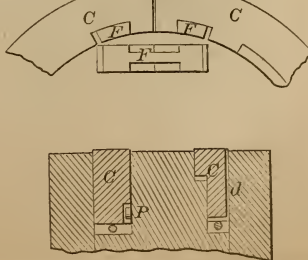
50695—B. K. Dorwart—*Crank Motion.*



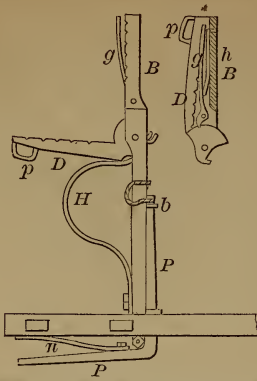
50696—J. P. Driver—*Store Case.*



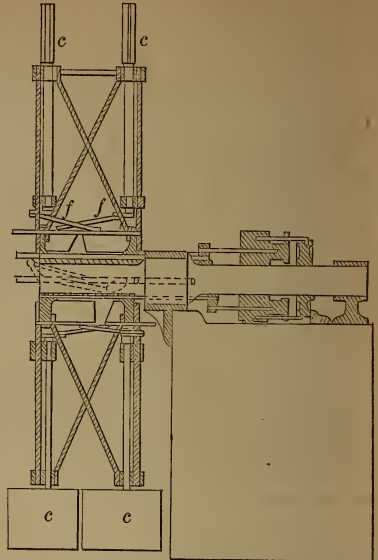
50697—H. D. Dunbar—*Piston Packing.*



50698—C. D. Everett—*Mail Bag Receiver.*



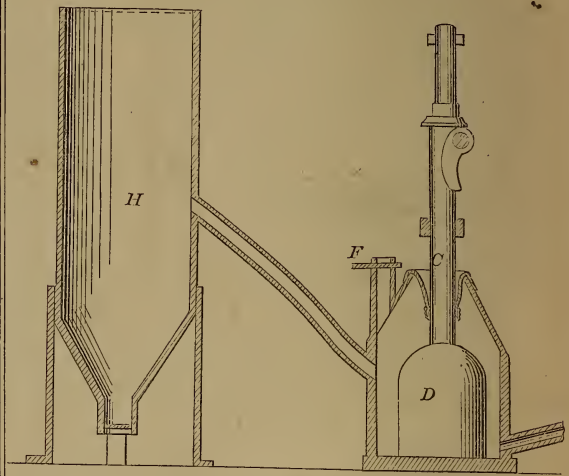
50702—S. F. Gates—*Paddle Wheel.*

50700—G. H. Fox—*Shaft Coupling.*

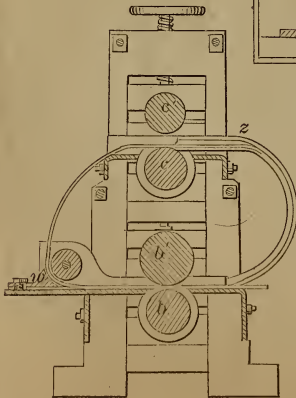
50699—Flagg & Briggs—
Toy Watch.



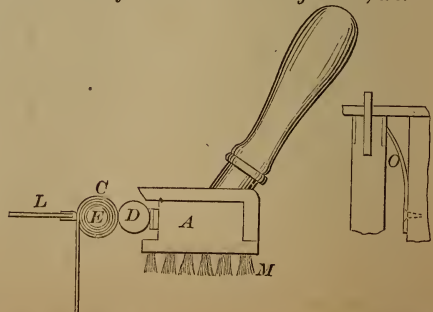
50703—A. W. Hall—*Ore Crusher.*



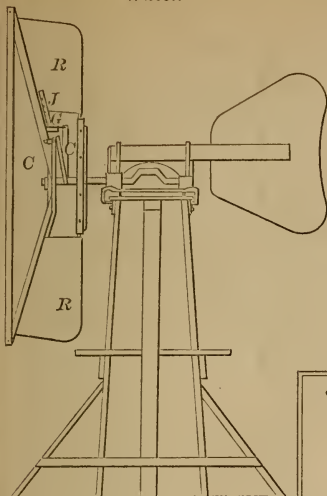
50704—D. Hall—*Rolling Mill.*



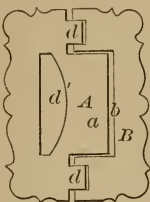
50701—Frey & Hahn—*Scrubbing Brush, &c.*



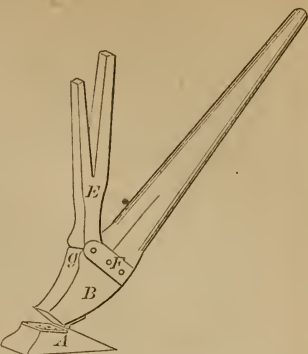
50705—A. M. Hansen—Wind Wheel.



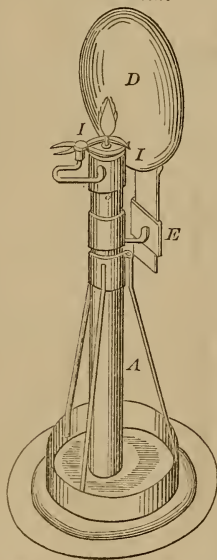
50706—C. B. Hatfield—Buckle.



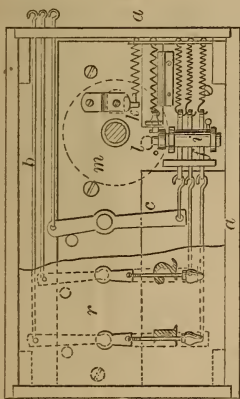
50707—A. Higley—Carriage Jack.



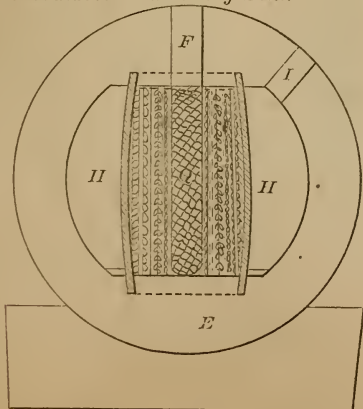
50708—W. H. H. Hinds—Candlestick.



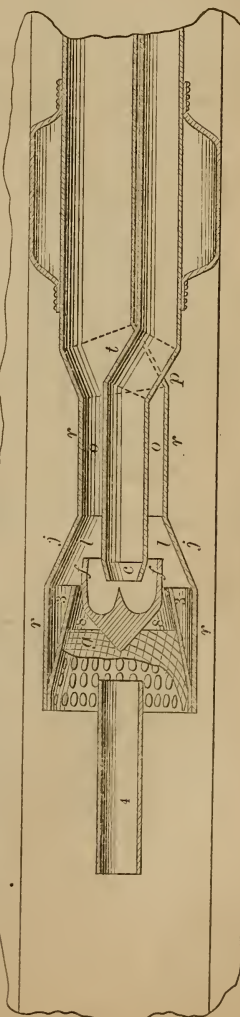
50709—H. Horsfall—Annunciator.

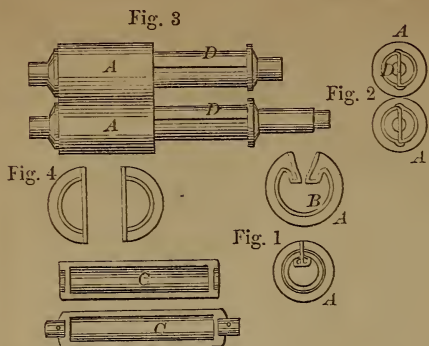
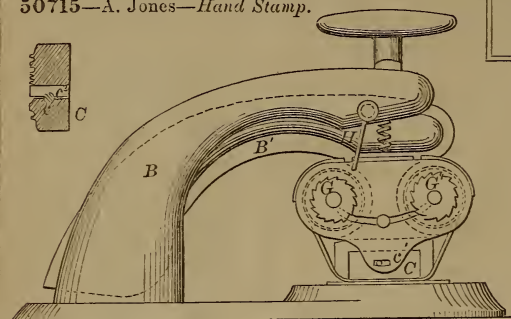
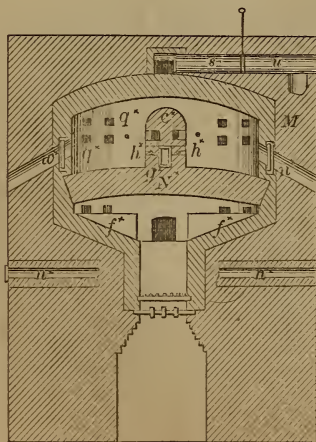
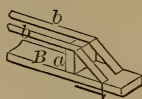
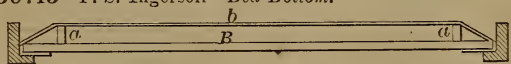
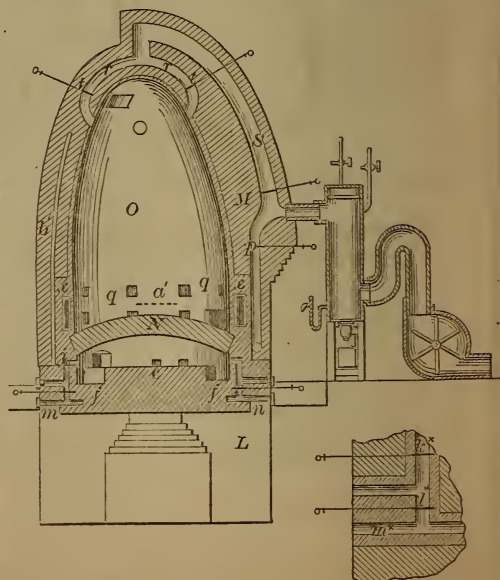
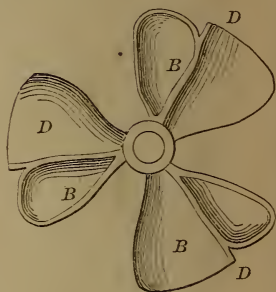
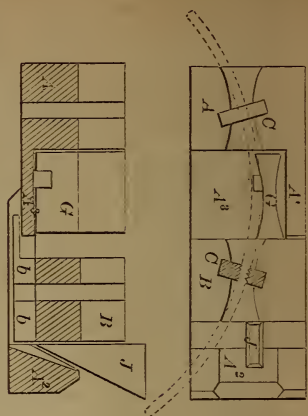


50711—W. W. Hubbell—Incendiary Shell.

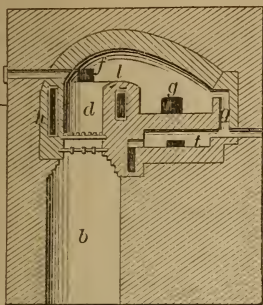


50710—W. W. Hubbell—Oil Ejector.

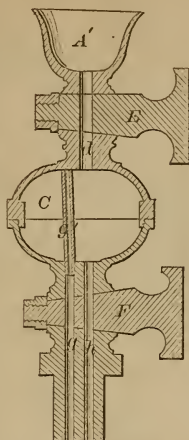


50712—R. B. Hugunin—*Washing Machine.*50715—A. Jones—*Hand Stamp.*50713—P. S. Ingersoll—*Bed Bottom.*50717—W. Kendrick—*Furnace for Treating Ores.*50714—F. Jacob—*Propeller.*50716—J. M. Kellogg—*Tree Shrubbing.*

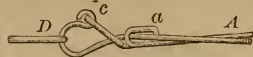
50718—W. Kendrick—
Reverberatory Furnace.



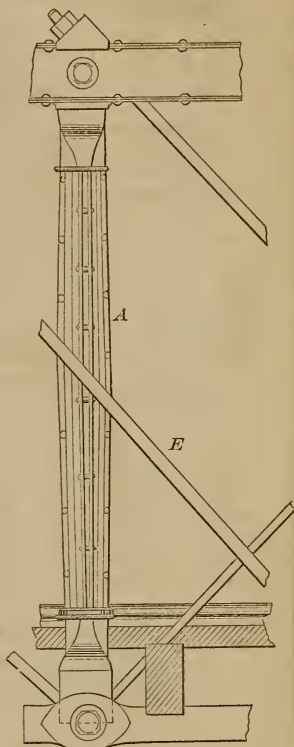
50719—
S. E. Kleinschmidt—
Lubricator.



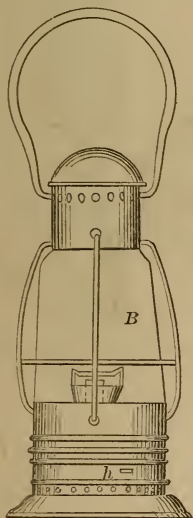
50720—H. W. Knowlton—
Snap Hook.



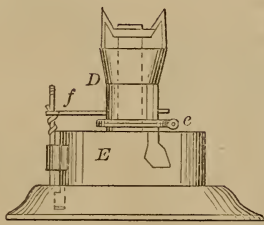
50723—J. H. Linville—Iron
Bridge.



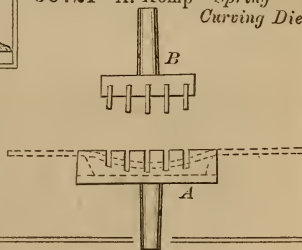
50725—R. M. Merrill—
Lantern.



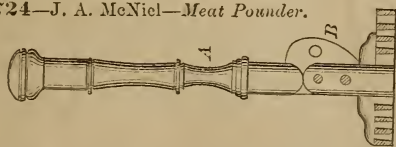
50722—A. P. Lighthill—
Catarrhal Syringe.



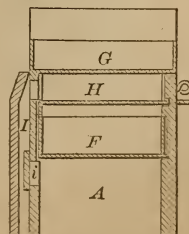
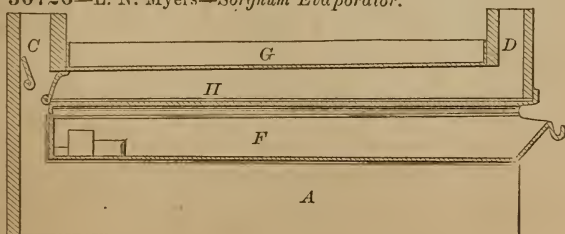
50721—A. Komp—Spring
Curving Die.



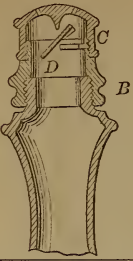
50724—J. A. McNiel—Meat Pounder.



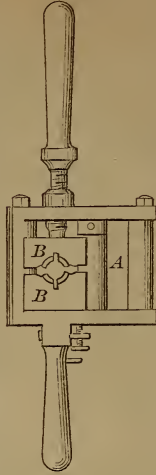
50726—L. N. Myers—Sorghum Evaporator.



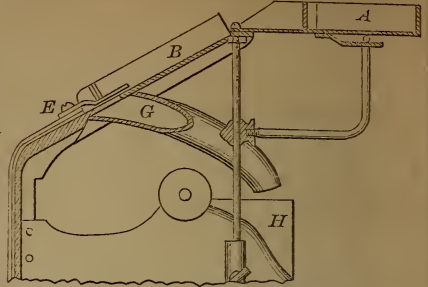
50727—A. H. Newton—
Pepper Box.



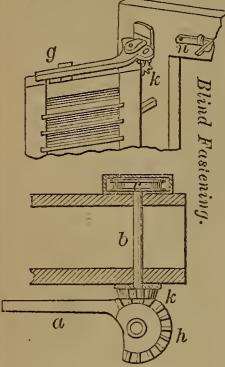
50731—
W. Pimlott—
Die Stock.



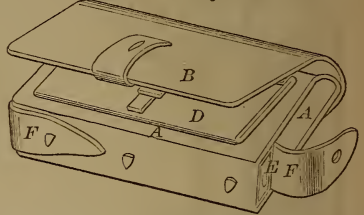
50728—C. L. Olmstead—Hoop Skirt Clasp.



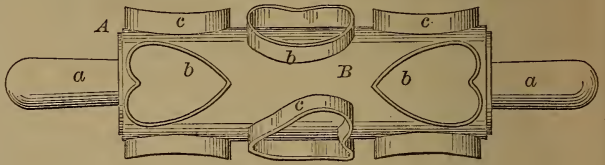
50733—
Quimby & Marston—



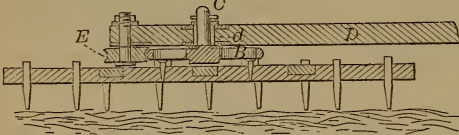
50730—J. Pease—Cartridge Box.



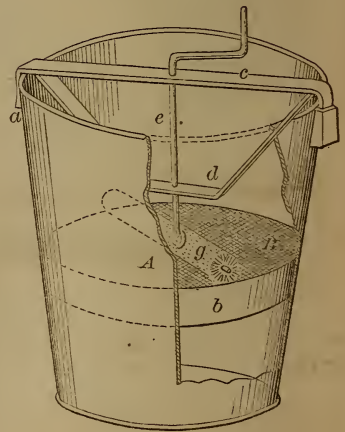
50732—I. N. Pyle—Cake Cutter and Rolling Pin.



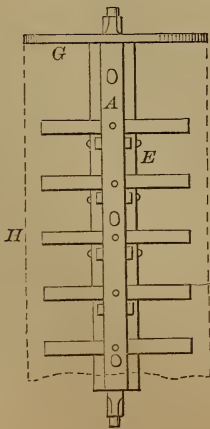
50729—J. D. Parrot—Rotary Harrow.



50734—U. Rice—Flour Sifter.



50736—Z. Sanders—Milk
Stand.

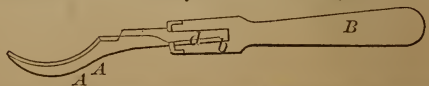


50735—

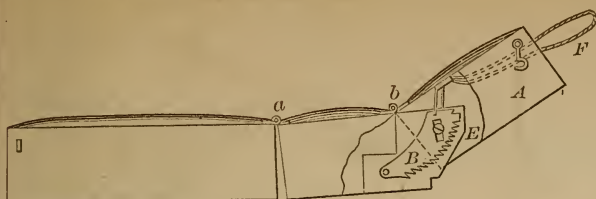
D. Russell—Vapor Inhaler.



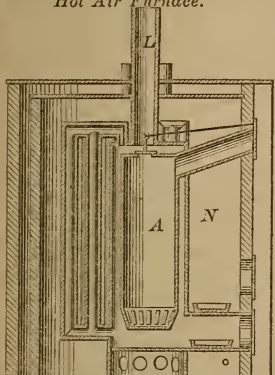
50737—C. E. Seavey—Stove Cover Lifter.



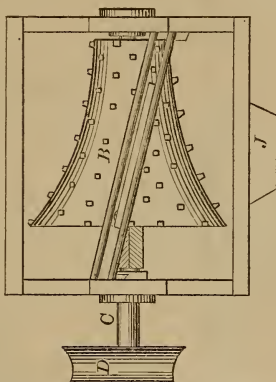
50738—G. N. Seidler—*Bed Bottom.*



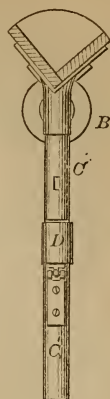
50739—Shedd & Worcester—*Hot Air Furnace.*



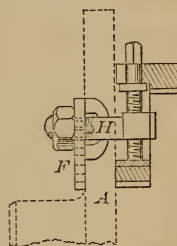
50740—H. F. & G. F. Shaw—*Corn Sheller.*



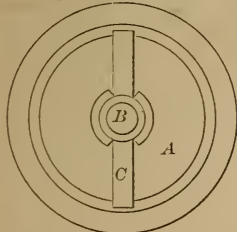
50741—J. Short—*Hod.*



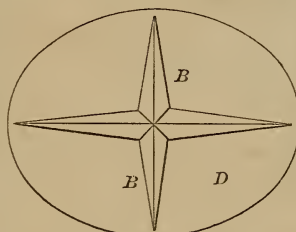
50747—M. Staub—*Chuck.*



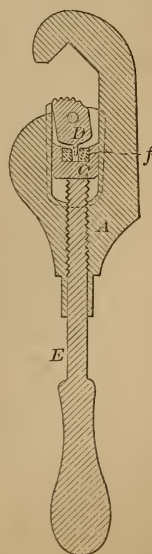
50742—Short & Scripture—*Oil Can.*



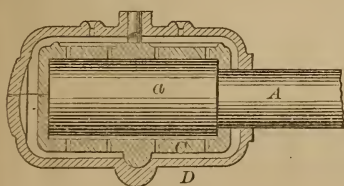
50744—T. Smith—*Coal Scuttle.*



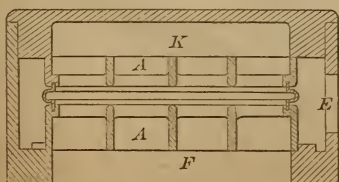
50748—Stillson & Chapman—*Pipe Tongs.*



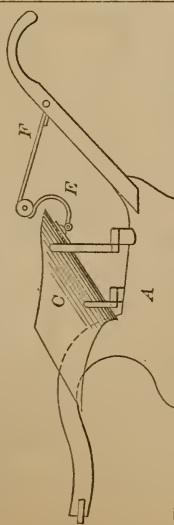
50745—J. Sparrow—*Shafting Box.*



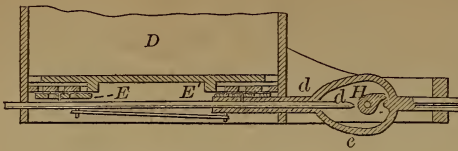
50746—H. Spengler—*Slide Valve.*



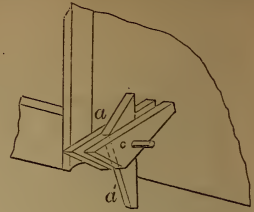
50749—C. W. Sykes—*Plow.*



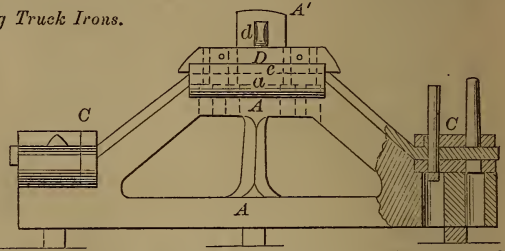
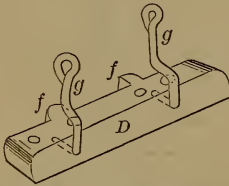
50750—G. Thackray—Slide Valve.



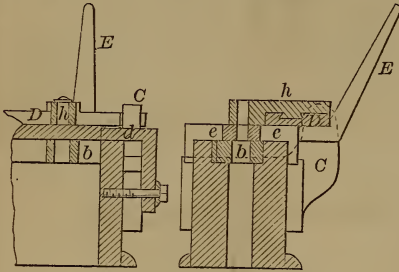
50751—A. V. Thomas—Night Lock.



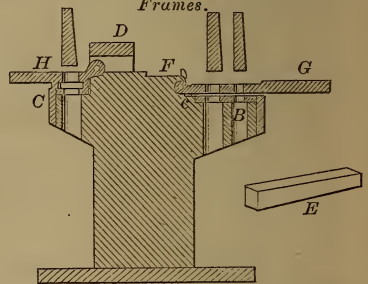
50753—P. L. Weimer—Making Truck Irons.



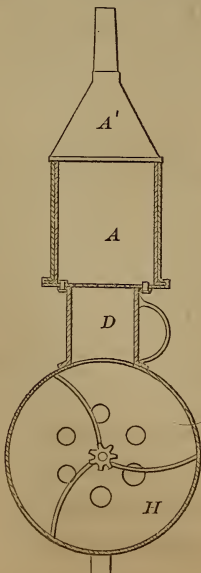
50754—P. L. Weimer—Punching.



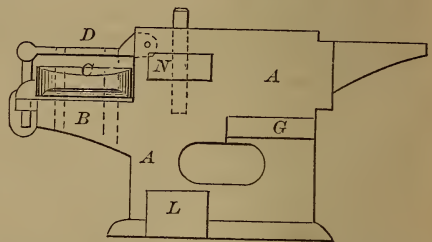
50755—P. L. Weimer—Making Draw Head Frames.



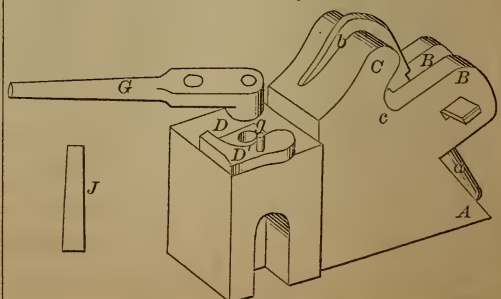
50752—S. Vanstone—Fumigator.



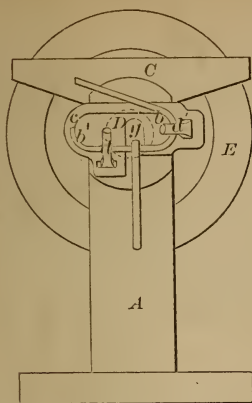
50756—P. L. Weimer—Making Draw Head Plates.



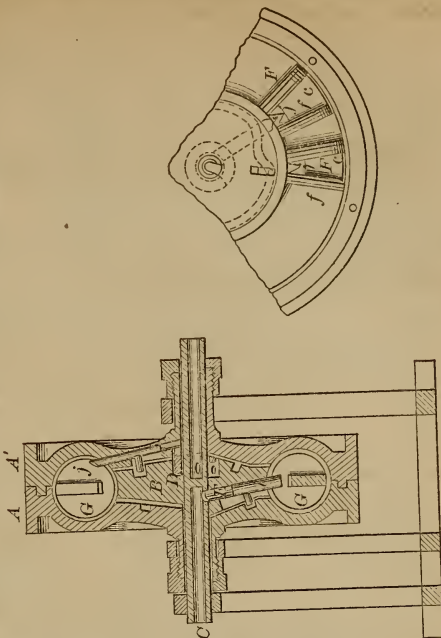
50757—P. L. Weimer—Making Hooks.



50758—P. L. Weimer—*Bending Chain Links.*

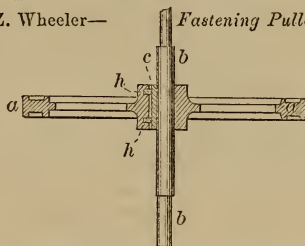


50759—G. Westinghouse, Jr.—*Rotary Steam Engine.*

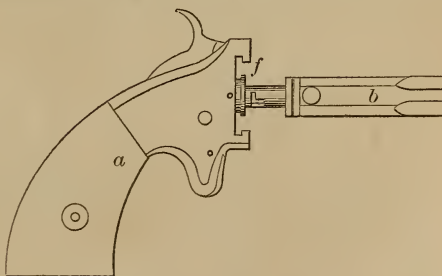


50761—Z. Wheeler—

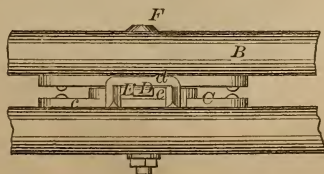
Fastening Pulleys to Shafts.



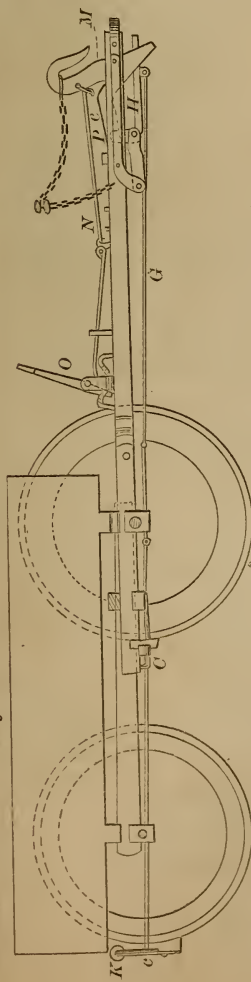
50760—H. F. Wheeler—*Fire Arm.*



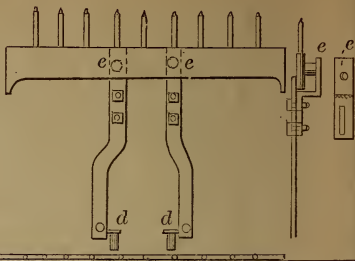
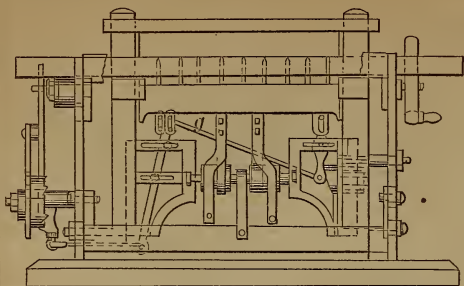
50763—G. Woeber—*Whiffletree.*



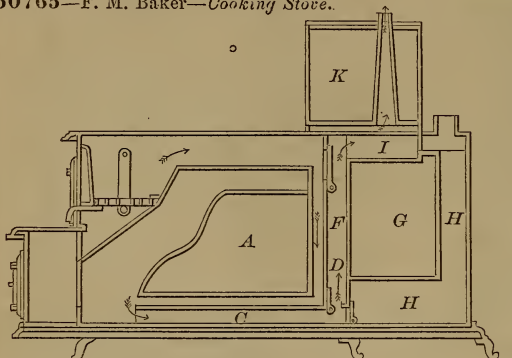
50762—J. F. Wilson—*Wagon Brake.*



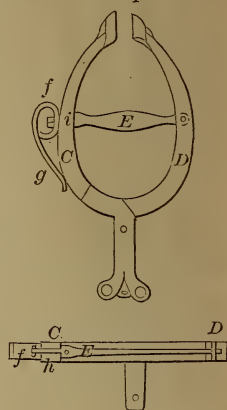
50764—W. Aspinwall—Loom.



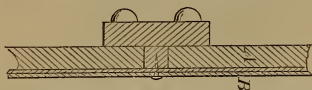
50765—F. M. Baker—Cooking Stove.



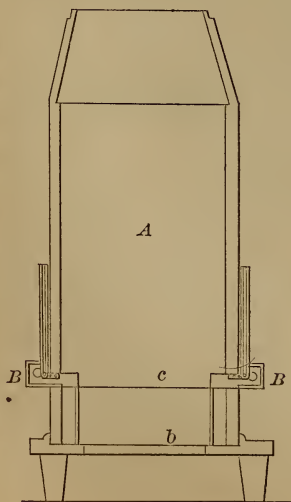
50766—A. J. Curtis—Harness Clamp.



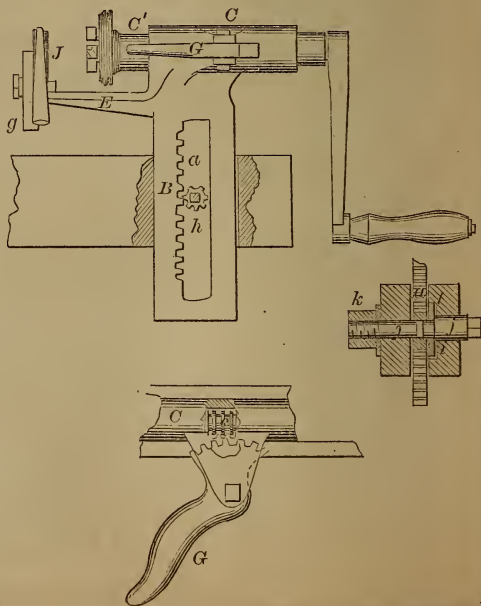
50767—T. B. Daft—Iron Ship.



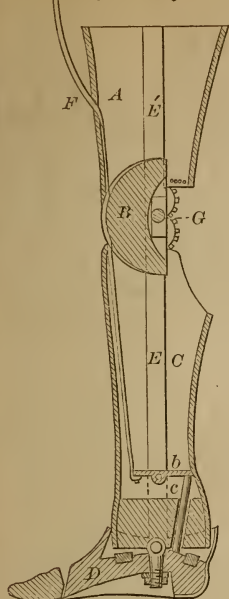
50769—A. A. Lincoln—Cupola Furnace.



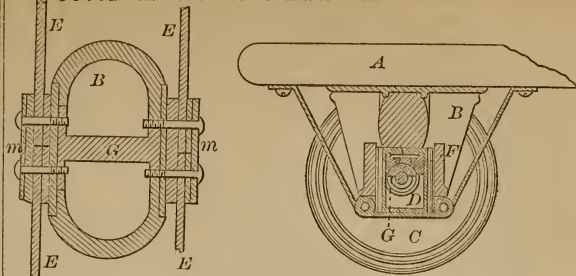
50768—L. A. Dole—For Tenoning Spokes.



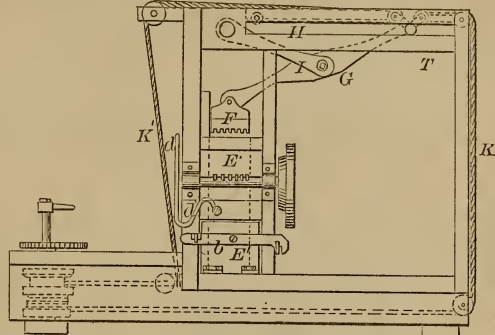
50770—R. G. Lockwood—*Artificial Leg.*



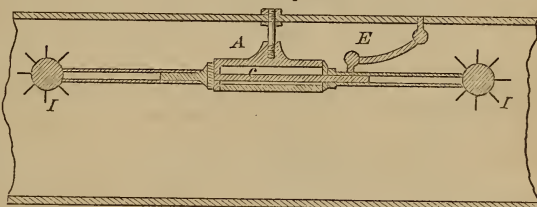
50771—A. B. Nimbs—*Journal Box.*



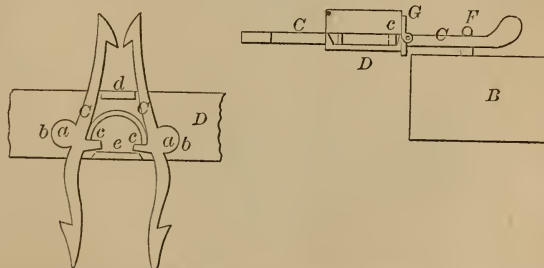
50772—W. Norman—*Cotton Press.*



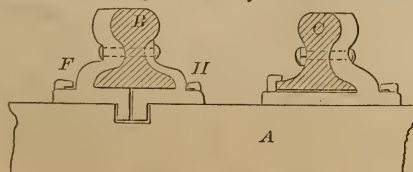
50773—G. T. Parry—*Preventing Scale on Boilers.*



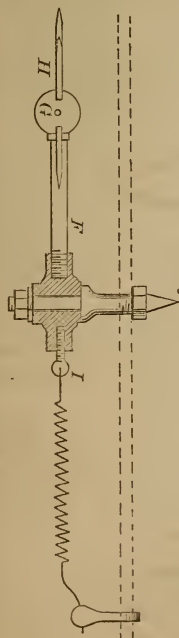
50775—D. B. Randall—*Blind Fastener.*



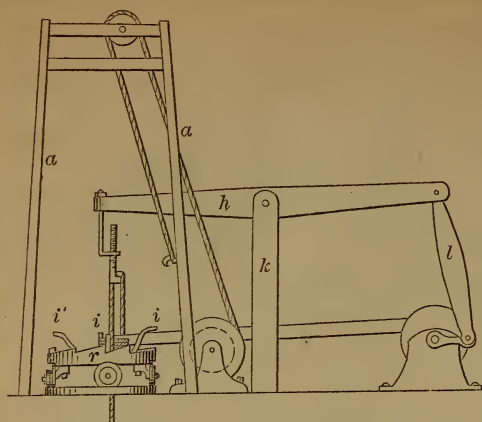
50776—Roebbling & McMurty—*Railroad Chair.*



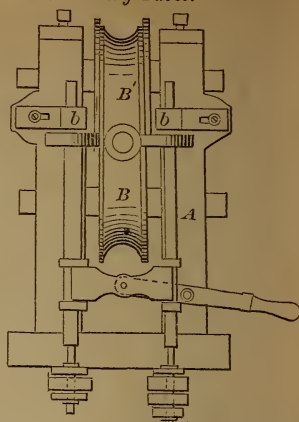
50774—A. F. Porter—*Preventing Scale on Boilers.*



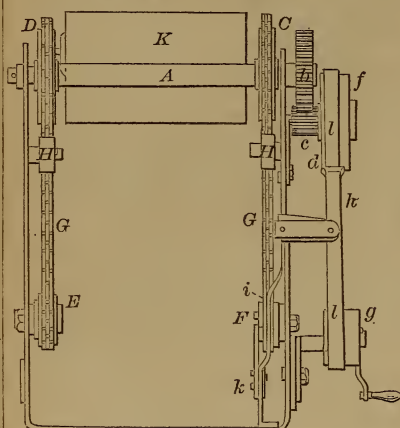
50777—J. Ross—Well Boring.



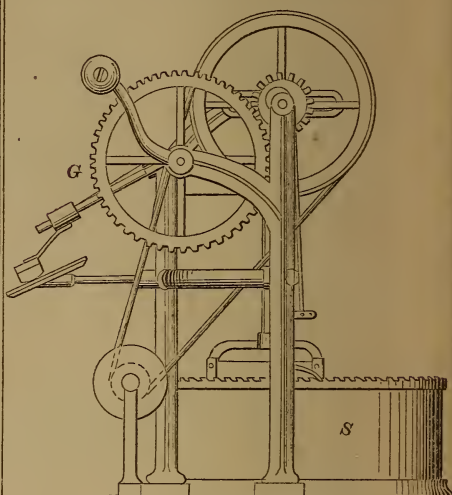
50781—P. L. Weimer—For Finishing Tubes.



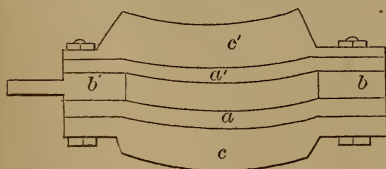
50778—W. Sawyer—Elevator.



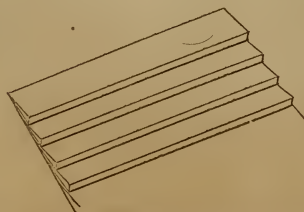
50779—H. S. Shepardon—For Scouring Knives, &c.



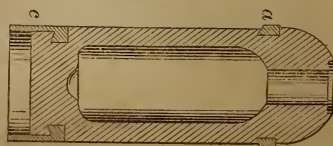
50782—J. I. Ralya—Cutting Staves.



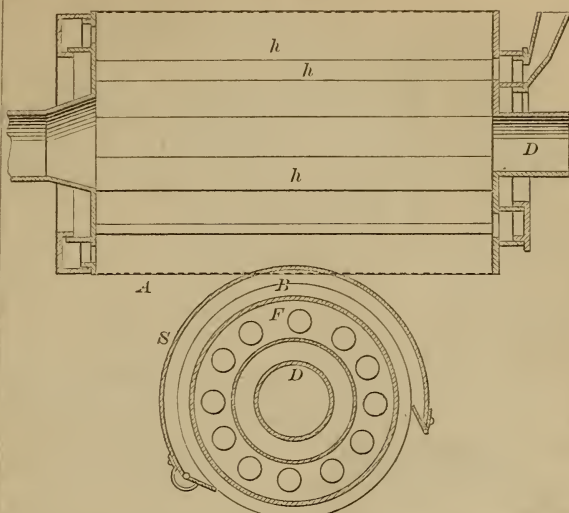
50784—H. B. Adams—Roofing Buildings.



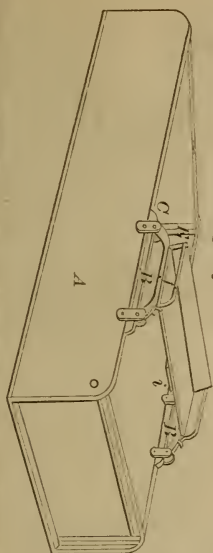
50783—J. Absterdam—Covering Projectiles.



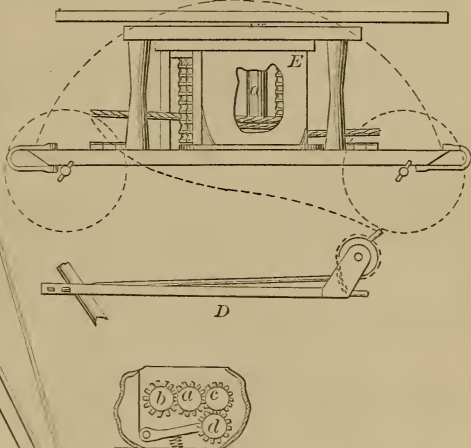
50789—H. H. Beach—*Grain Dryer.*



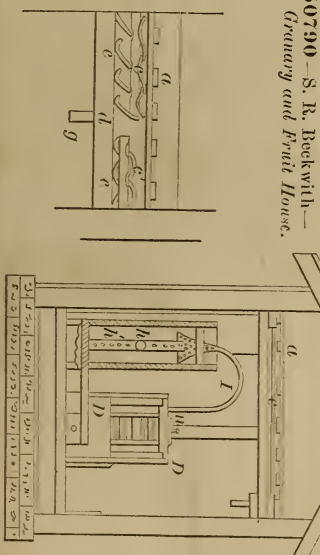
50785—T. J. Alexander—*Spring Seat.*



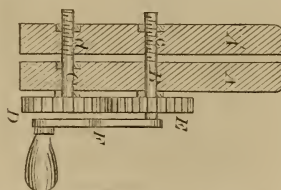
50787—T. I. Burhyte—*Platform and Windlass.*



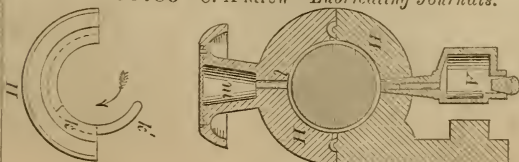
50790—S. R. Beckwith—*Crucery and Fruit House.*



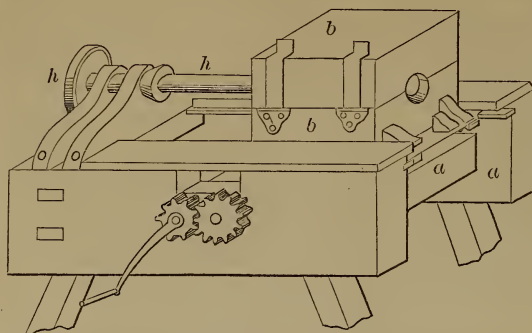
50788—J. D. Batchelor—*Boot Crimping.*



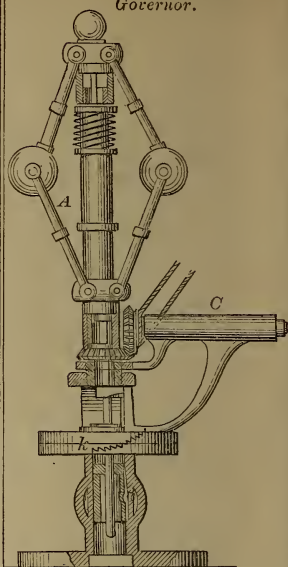
50786—C. Andrew—*Lubricating Journals.*



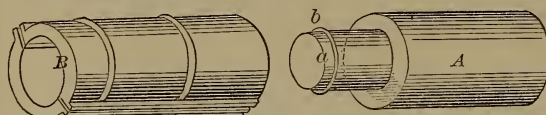
50791—E. N. Blackmer—Moulding Pottery.



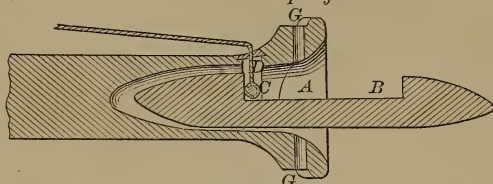
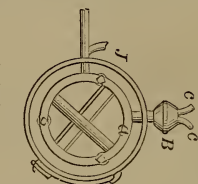
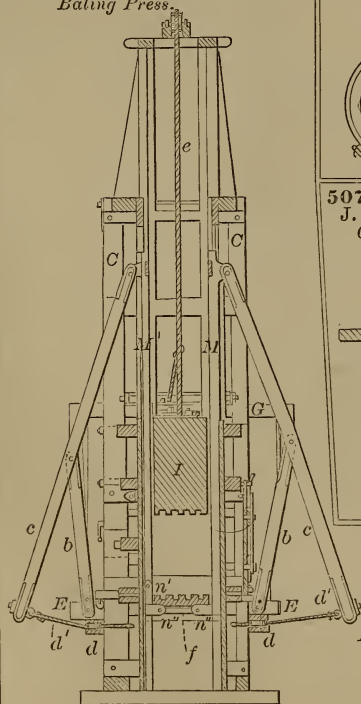
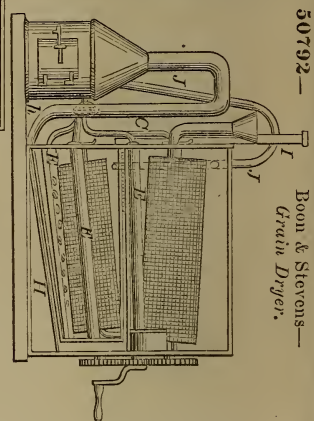
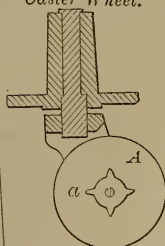
50793—A. Brown—Steam Governor.



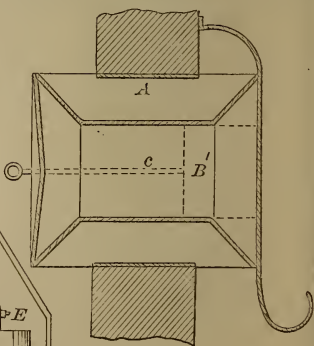
50796—J. W. Clark—Car Axle.



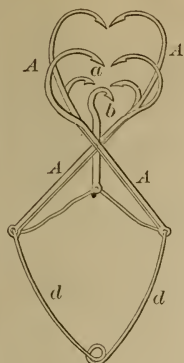
50797—S. A. Corser—Car Coupling.

50798—F. F. Cornell, Jr.—
Baling Press.50795—
J. B. Capewell—
Caster Wheel.50792—
Boon & Stevens—
Grain Dryer.

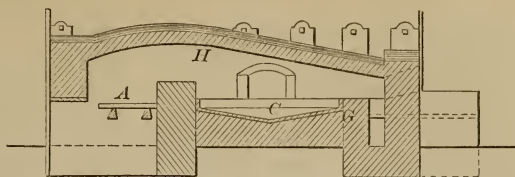
50794—B. J. Burnett—Ventilator.



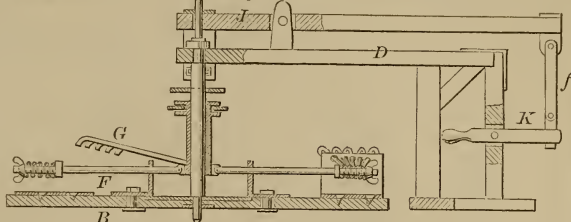
50799—G. Crandell—*Fish Hook.*



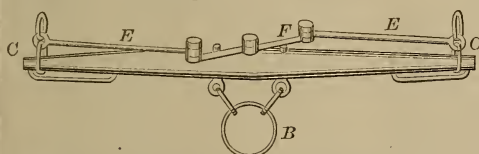
50800—J. J. Crooke—*Refining Lead.*



50803—J. Davis—*Driving Horses.*



50801—J. Cummings—*Neck Yoke.*



50805—Denison & Moon—*Grinding Mill.*

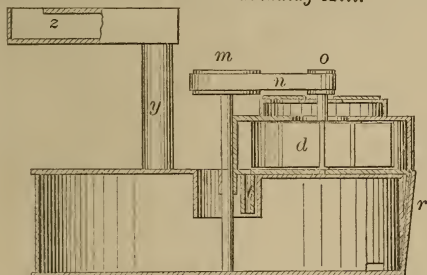
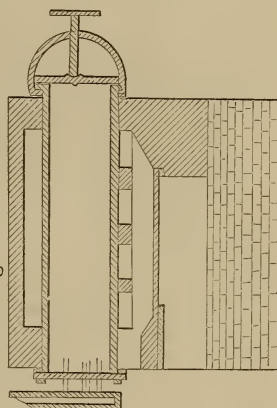
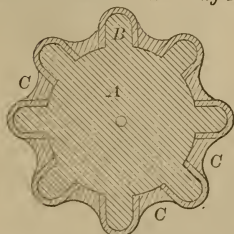


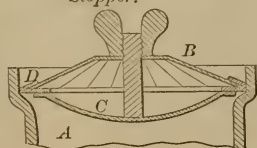
Fig. 2



50802—J. Danner—*Washing Machine.*



50806—C. R. Doane—*Fruit Jar Stopper.*



50804—Derby, Trippel & Gaussoin—*Manufacture of Steel.*

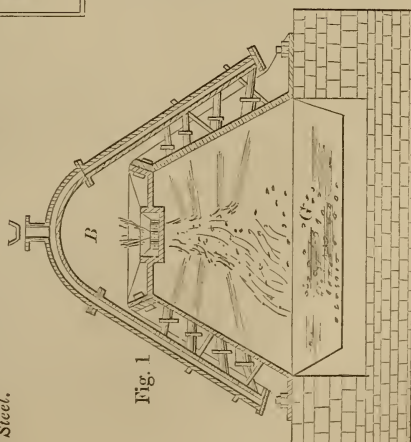
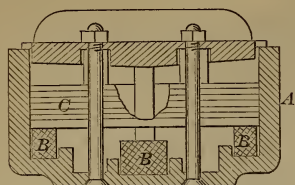
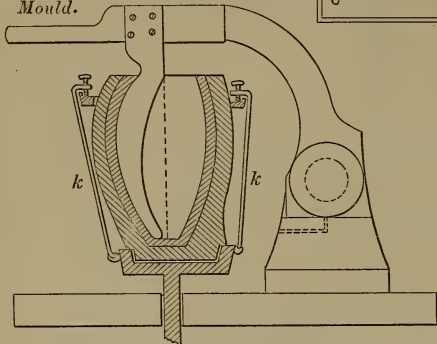
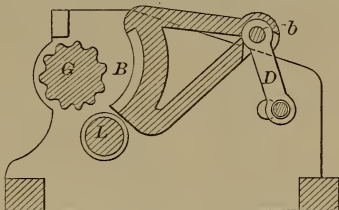
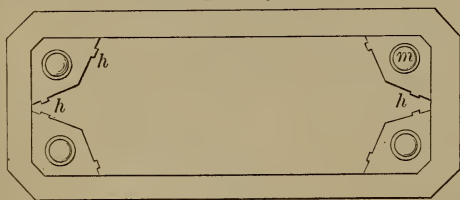
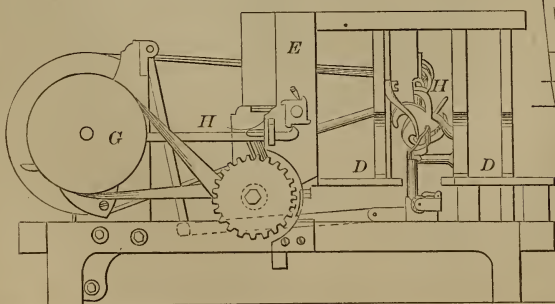
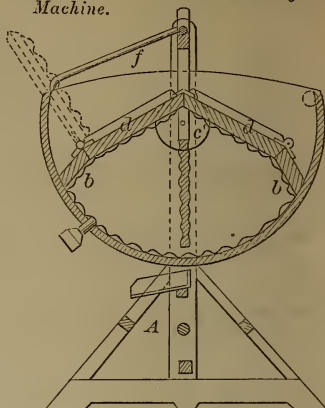
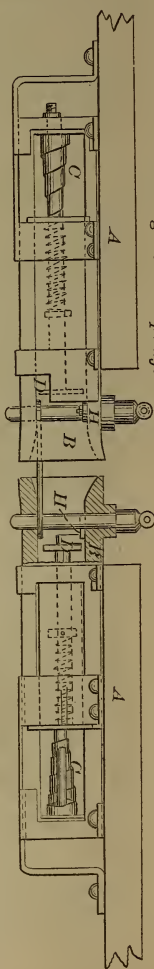
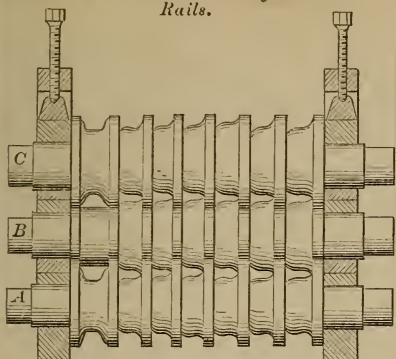


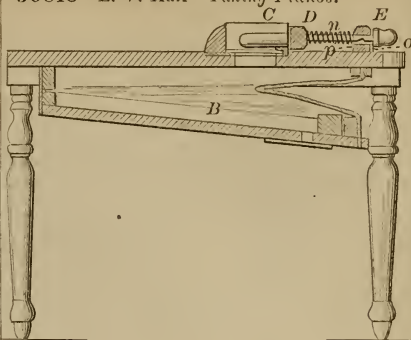
Fig. 1

50807—G. Douglass—*Car Spring*.50812—T. G. French—*Crucible Mould*.50813—Gates & Fraser—*Stone Breaker*.50815—N. Groel—*Carpet Bag*.50814—A. Goodyear, 2d—*Grain Binder*.50809—J. H. Bartle—*Lat.*50810—J. B. Fisher—*Washing Machine*.50808—C. Dreher—*Screw Cutting*.50811—H. H. Fleming—*Car Coupling*.

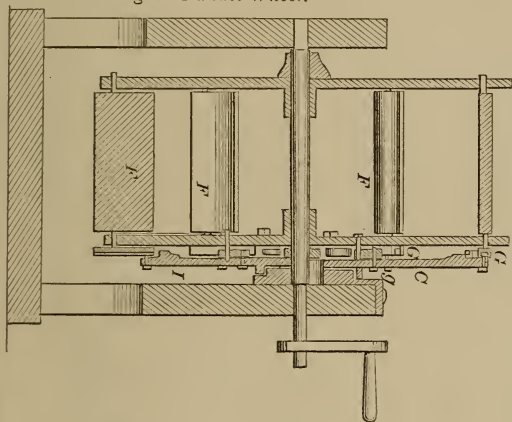
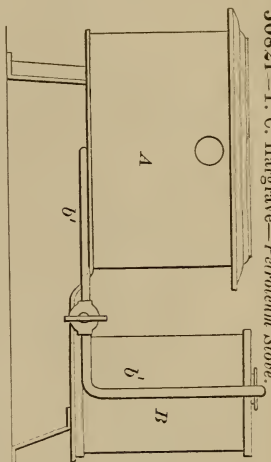
50816—A. J. Gustin—*Rolling Railroad
Rails.*



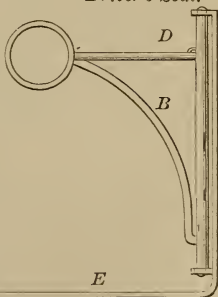
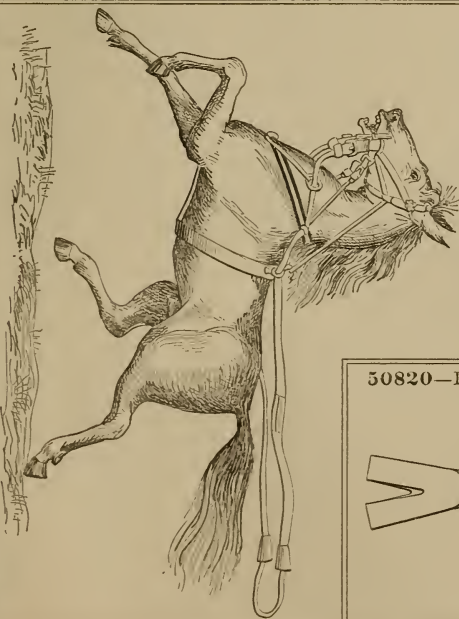
50818—L. V. Hall—*Tuning Pianos.*



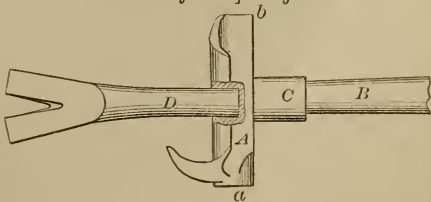
50817—E. Haight—*Paddle Wheel.*

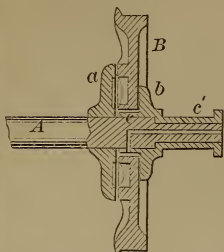
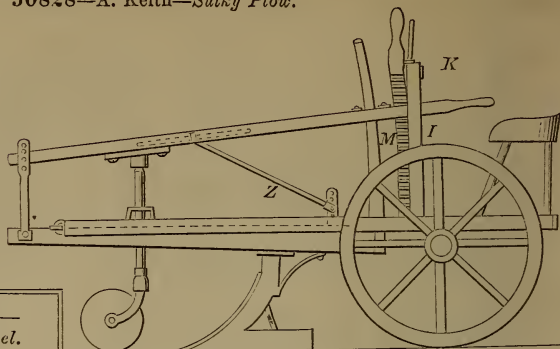
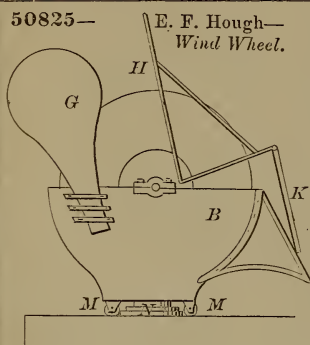
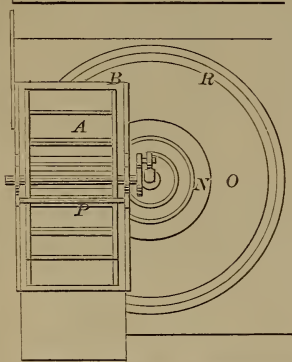
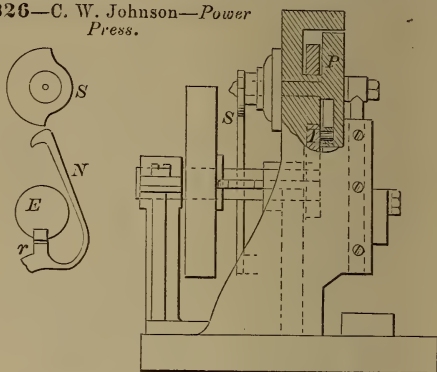
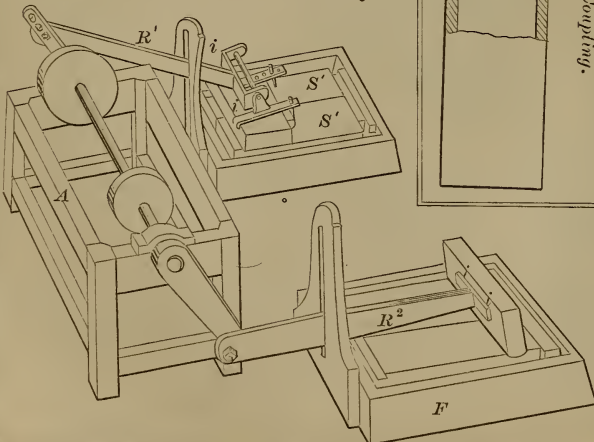
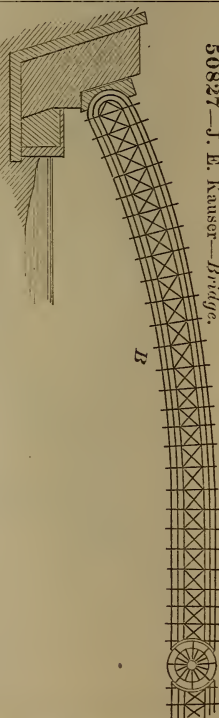
50821—T. C. Hargrave—*Petroleum Stove*

50819—T. C. Hambley—*Car
Driver's Seat.*

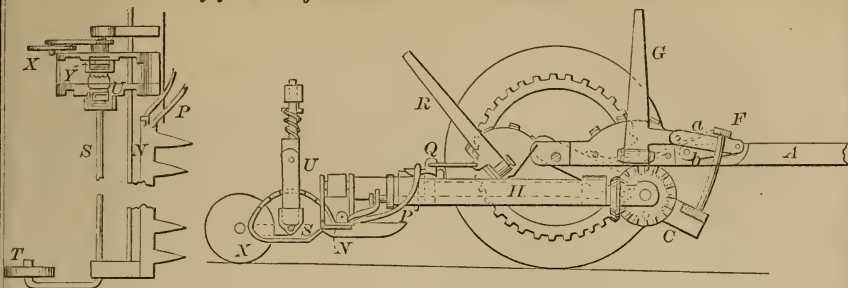
50822—S. B. Hartman—*Bridle*.

50820—E. Hambujer—*Opening Boxes.*

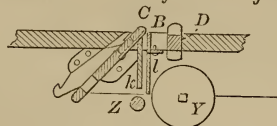


50823—H. Helm—*Car Wheel and Axle.*50828—A. Keith—*Sulky Plow.*50825—E. F. Hough—*Wind Wheel.*50826—C. W. Johnson—*Power Press.*50829—H. W. Kent—*Marble Finishing.*50824—J. R. Hill—*Car Coupling.*50827—J. E. Kauser—*Bridge.*

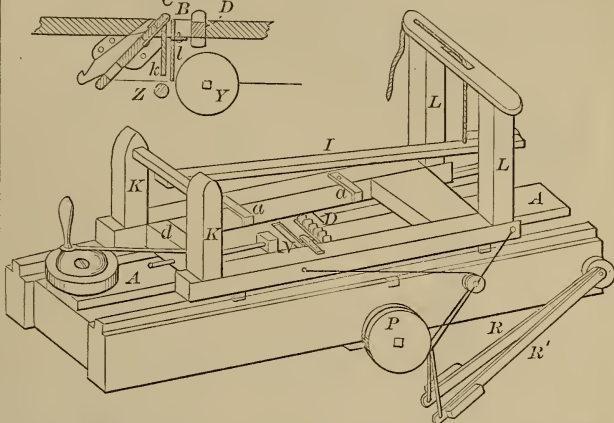
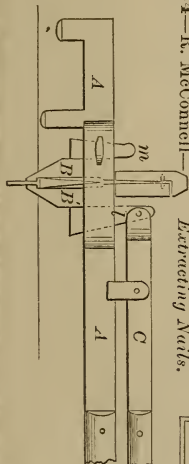
50830—H. F. Lovejoy—Mowing Machine.



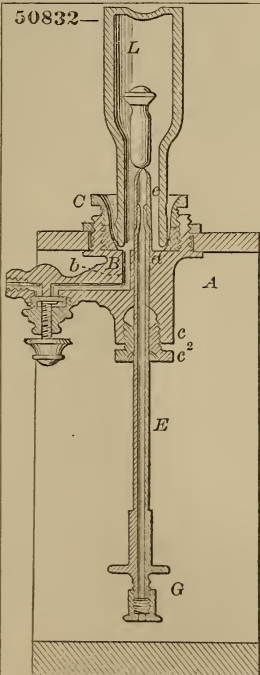
50833—J. K. Mayo—Cutting Splints.



50834—R. McConnell—Extracting Nails.

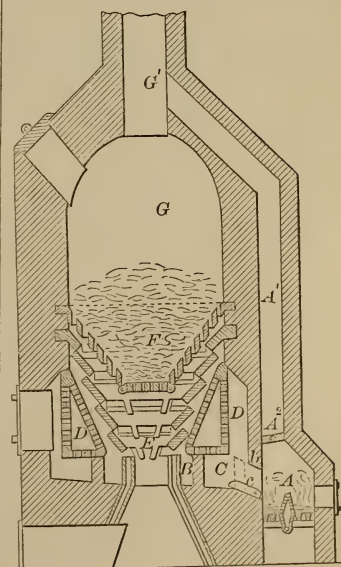


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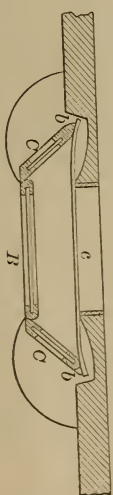


J. Mathews, Jr.—Filling Bottles.

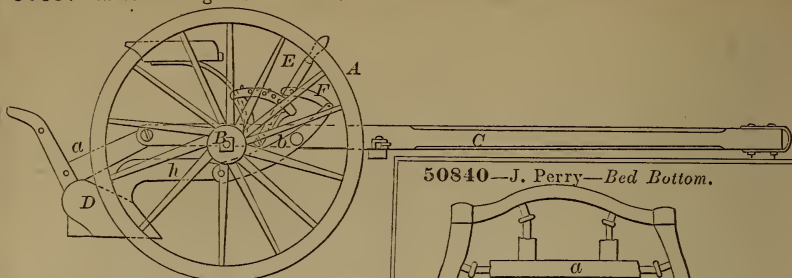
50836—D. Minthorn—Desulphurizing Ore.



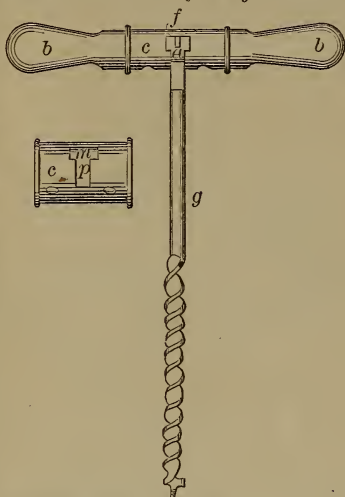
50831—G. Mann, Jr.—Ventilating Car Window.



50837—I. F. Nutting—Wheel Plow.



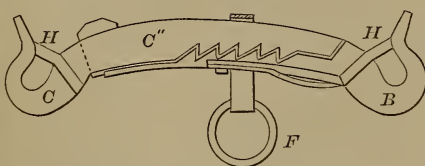
50838—H. W. Olney—Auger Handle.



50839—H. Osgood—Clap Board.



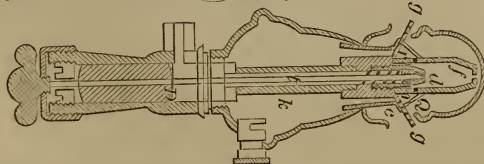
50842—A. J. Preston—Hames Fastener.



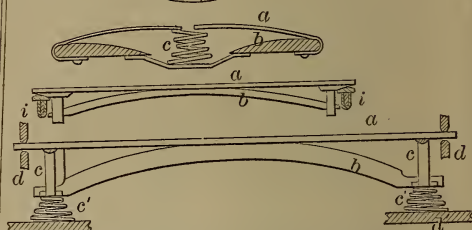
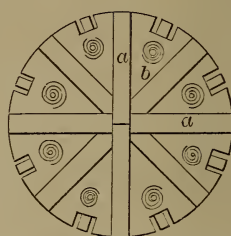
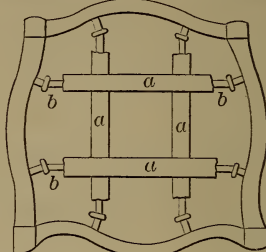
50841—J. N. Plotts—Belt Clasp.



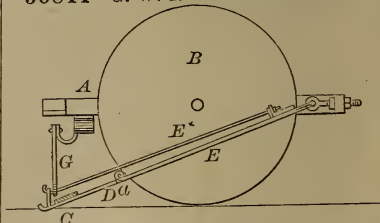
50845—J. J. Riddle—Gas Burner.



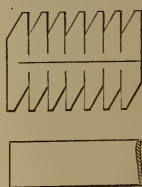
50840—J. Perry—Bed Bottom.



50844—G. W. Richardson—Harvester.



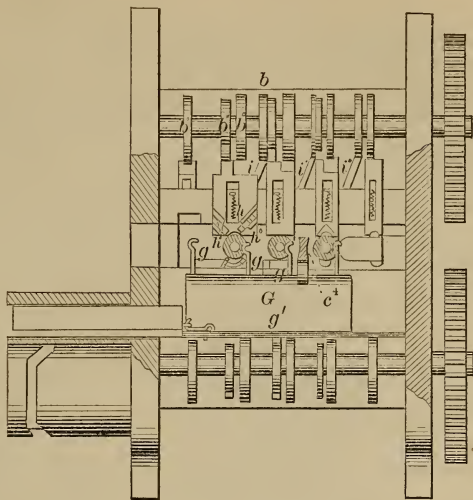
50843—H. Reiman—Friction Matches.



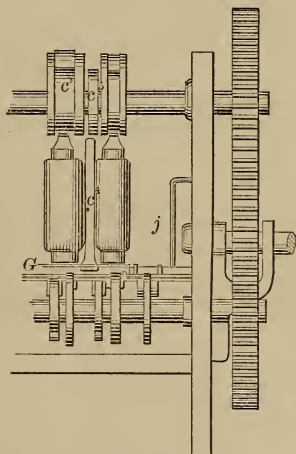
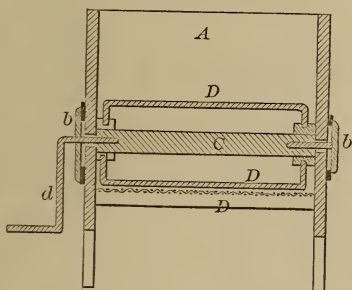
50846—T. Rose—*Oil Well Pump.*



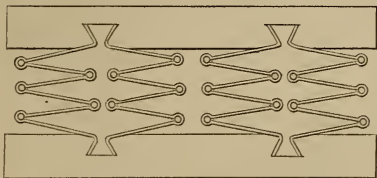
50848—F. Schweizer—*Bolt Heading Machine.*



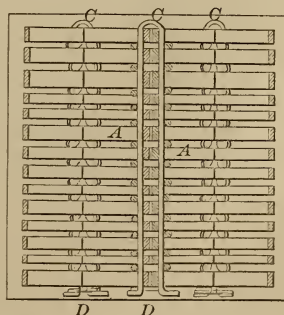
50847—Z. & F. Saunders—*Flour Sifter.*



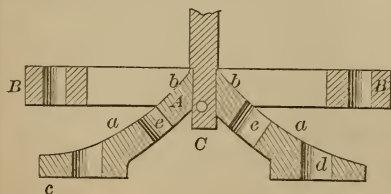
50849—J. J. C. Smith—*Car Spring.*



50850—J. J. C. Smith—*Car Spring.*



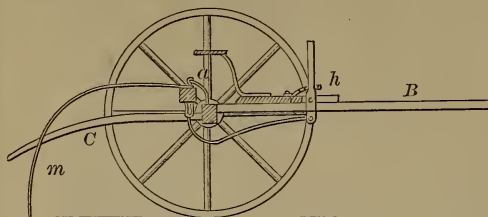
50851—M. J. Smith—*Churn Dasher.*



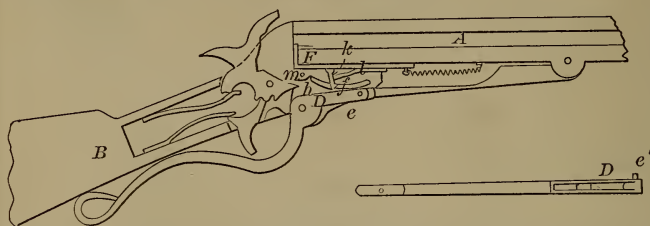
50852—J. Stanbrough—Buckle.



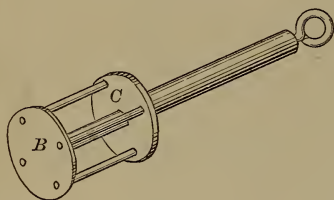
50853—A. C. Stone—Horse Rake.



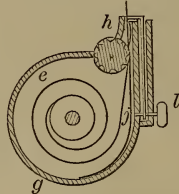
50854—T. L. Sturtevant—Cartridge Retracter.



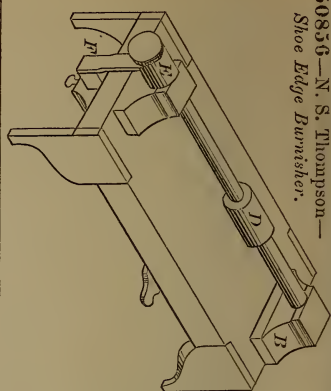
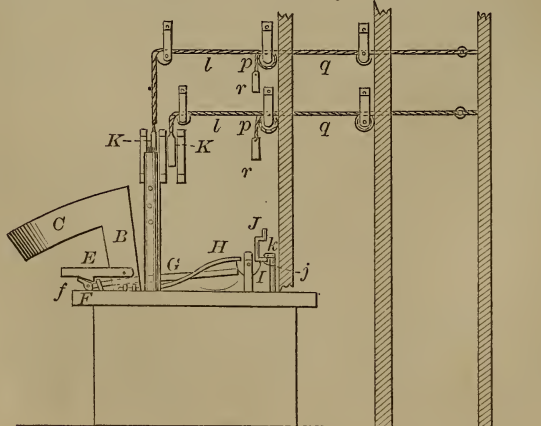
50859—E. Tyler—Apple Gatherer.



50860—Tyler, Chandler & Standish—Friction Matches.



50863—Ward & Luce—Fire and Burglar Alarm.

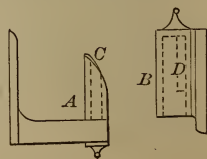
50856—N. S. Thompson—
Shoe Edge Burnisher.

50857—

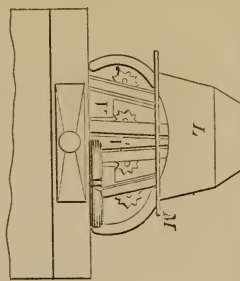
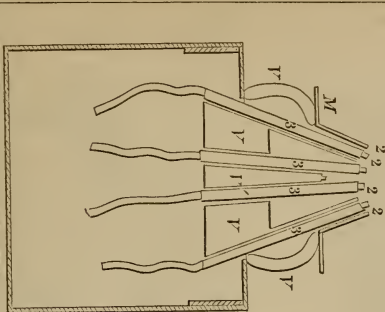
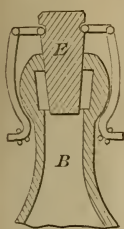
R. S. Torrey—Drill Rod.



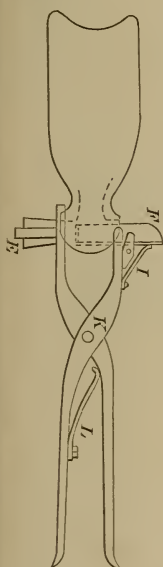
50861—L. Upham—Hinge.



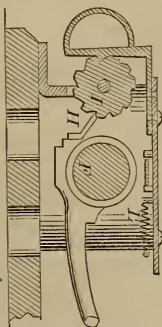
50864—
T. B. Way—
Bottle Stopper.



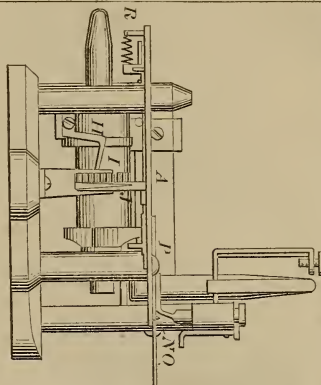
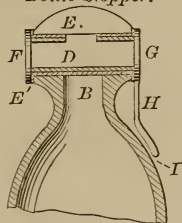
50865—J. H. Wilhelm—Lamp.



50868—J. Woolaver—For Opening Bottles.

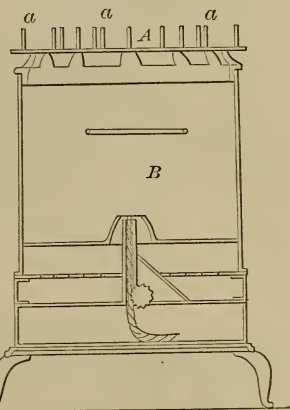


50867—J. Woolaver—
Bottle Stopper.

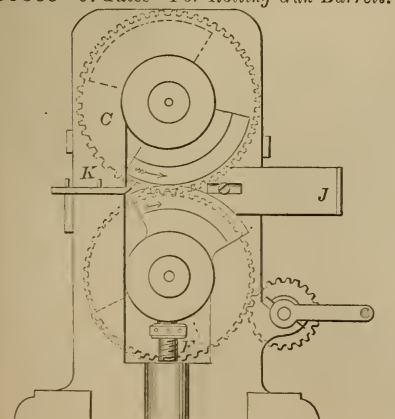


50870—W. B. Bartram—Sewing Machine.

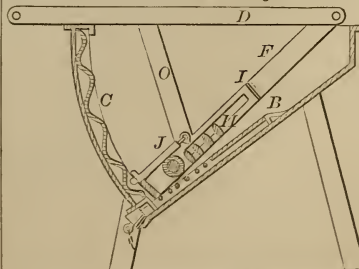
50866—F. Winslow—Heating
Shoe Sole.

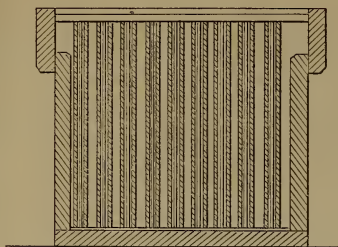
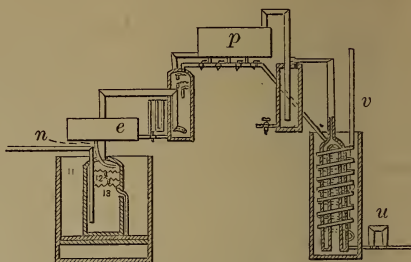
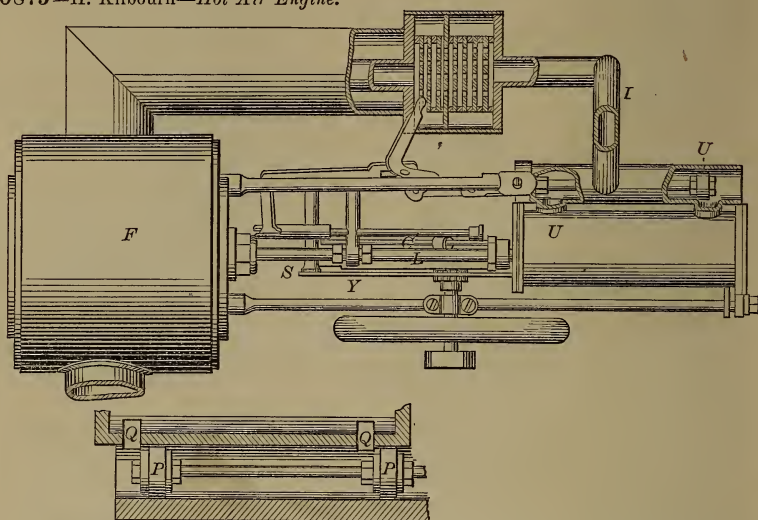
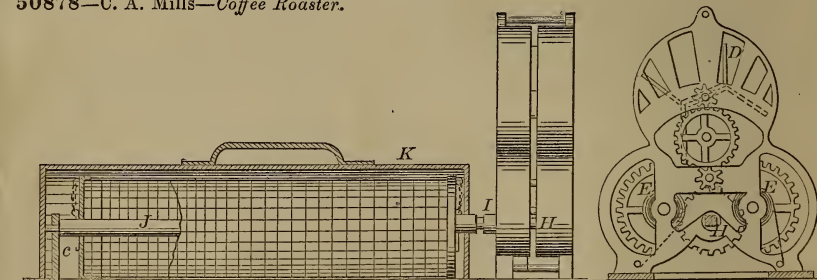
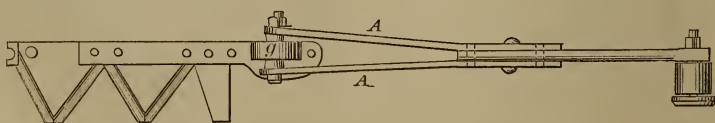


50869—J. Yates—For Rolling Gun Barrels.

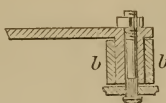
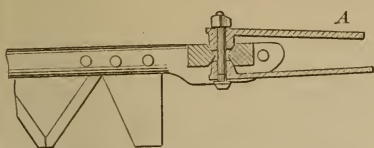


50873—J. Keane—Washing Machine.

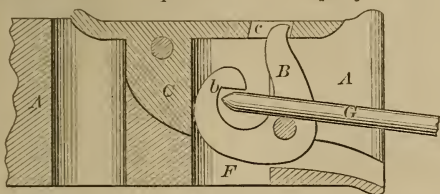


50874—R. Keck—*Mirror Manufacture.*50876—Kreusler & Pelton—*For Distilling Spirits.*50875—H. Kilbourn—*Hot Air Engine.*50878—C. A. Mills—*Coffee Roaster.*50879—D. M. Osborne—*Harvester Pitman.*

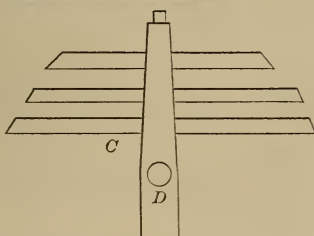
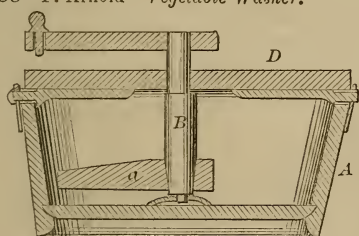
50880—D. M. Osborne—*Harvester Pitman.*



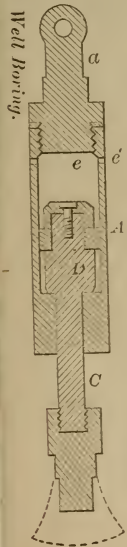
50882—H. J. Shepardson—*Car Coupling.*



50888—F. Arnold—*Vegetable Washer.*



50881—
T. J. Parke—

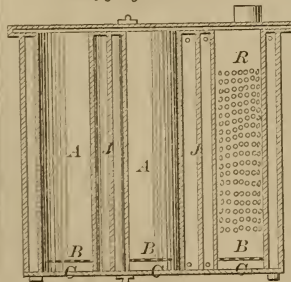


50887—

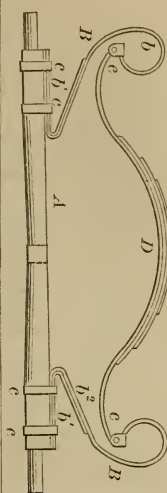
H. T. Love—*Auger.*



50884—C. J. Falkman—*For Purifying Alcohol.*



50886—W. Taylor—*Carriage Spring.*

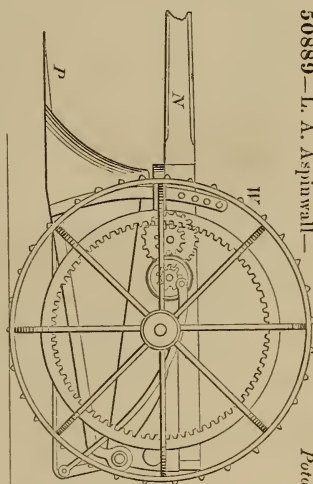


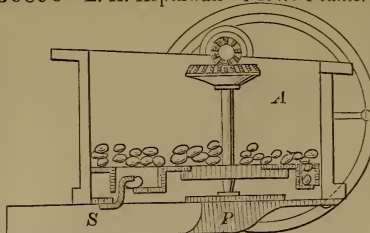
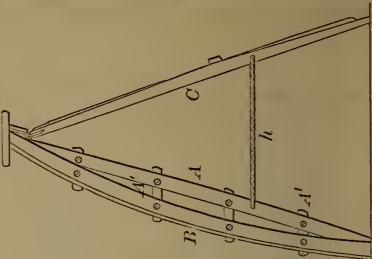
50883—F. Carré—*Bed Bottom.*



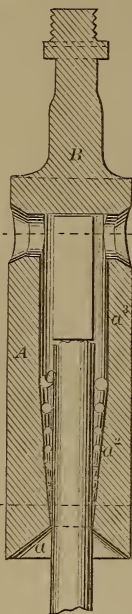
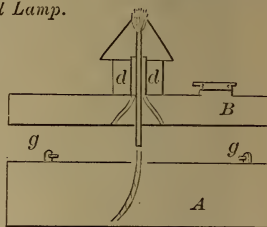
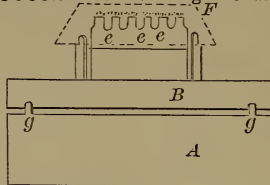
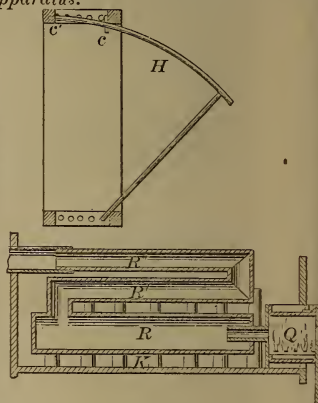
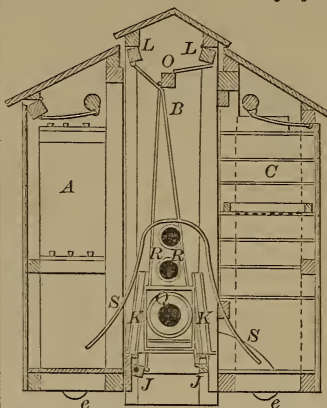
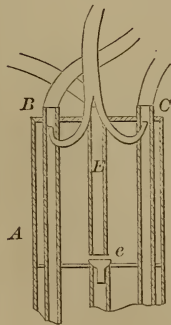
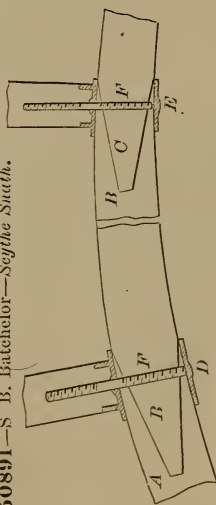
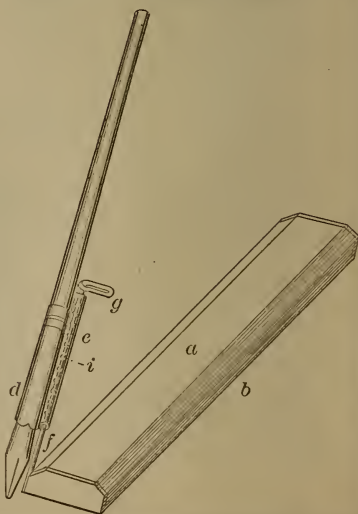
50889—L. A. Aspinwall—

Potato Digger.

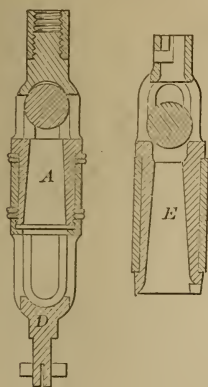


50890—L. A. Aspinwall—*Potato Planter.*50894—W. E. Bond—*Step Ladder.*

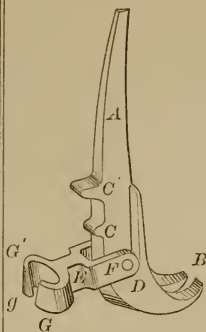
50896—

W. Towden—*For Removing Drills from Wells.*50892—W. B. Billings—*Coal Oil Lamp.*50895—D. K. Boswell—*Drying Apparatus.*50893—J. Blackie—*Deep Well Ejector.*50891—S. B. Batchelor—*Seythe Snath.*50897—F. Brackett—*Pen Holder.*

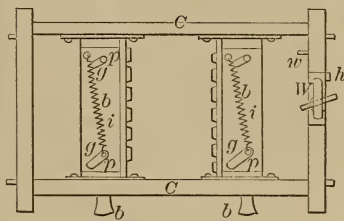
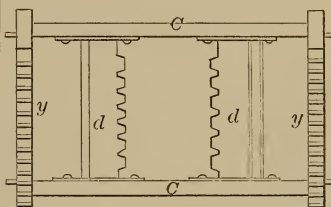
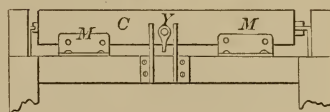
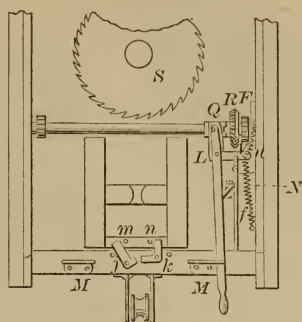
50898—E. D. Brown—
Deep Well Piston Packing.



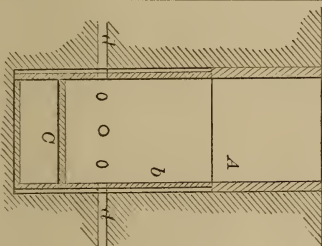
50899—G. Brownell—
Claw Bar.



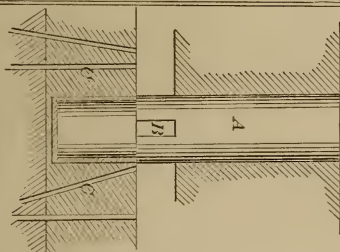
50900—Burnap & Melick—
Shingle Machine.



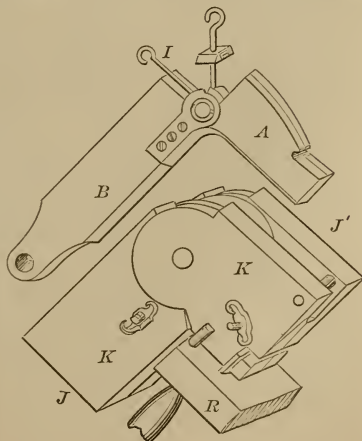
50902—P. Casamajor—
Operating Oil Wells.



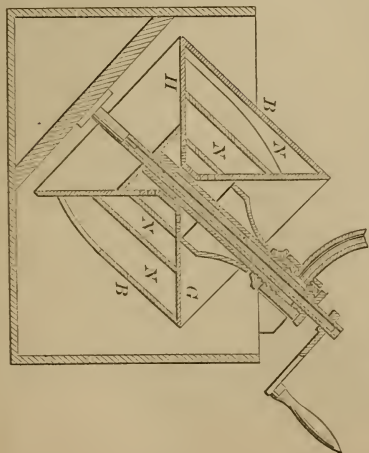
50903—P. Casamajor—
Operating Oil Wells.



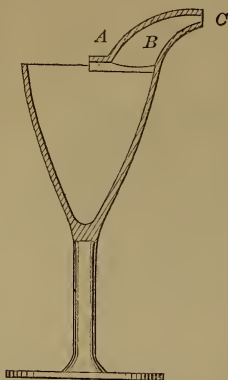
50904—A. & G. W. Caywood—Boot Crimp.



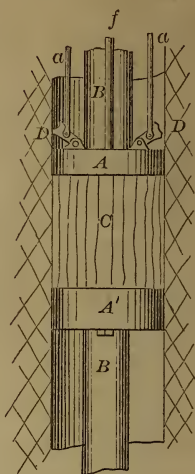
50905—J. Chase—For Carburetting Air.



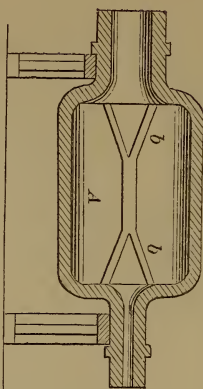
50906—M. P. Codman—
Cup for the Sick.



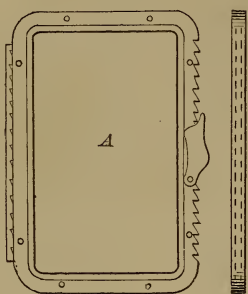
50910—J. R. Cross—
Oil Well Packing.



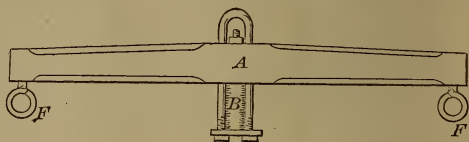
50907—D. B. & A. D. Coles—
*Retort for
Prussiate of Potash.*



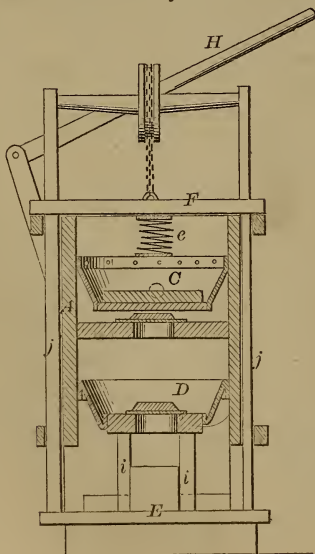
50909—B. F. Cowan—
Pocket Book.



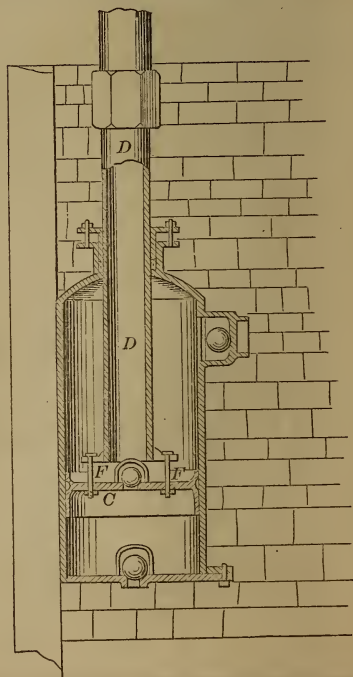
50908—H. A. Cook—
Attaching Team to Farm Machine.



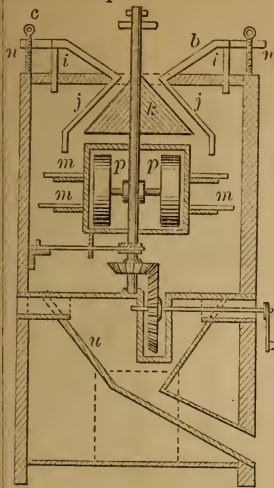
50912—G. W. Dalbey—
Bellows.



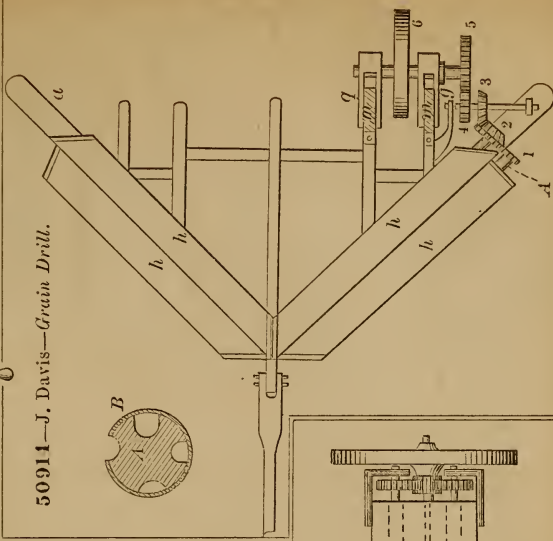
50911—W. H. Culp—
Pump.



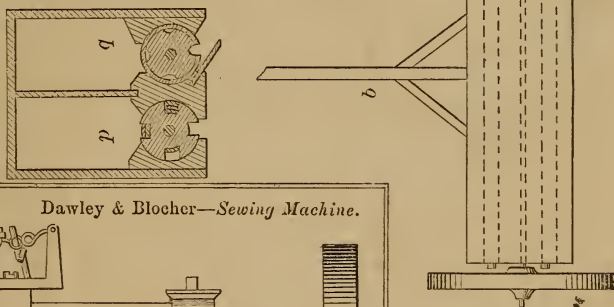
50913—J. Davis—Grain Separator.



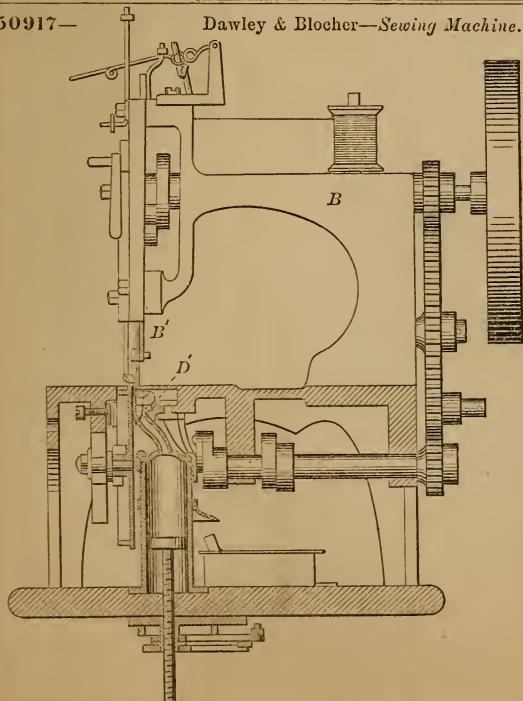
50914—J. Davis—Grain Drill.



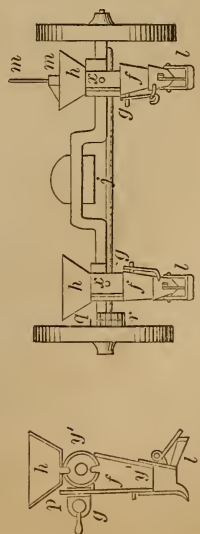
50916—J. Davis—Broadcast Seeder.



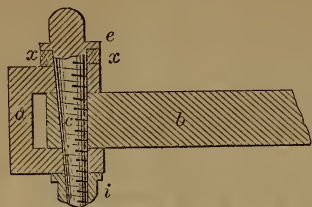
50917—Dawley & Blocher—Sewing Machine.



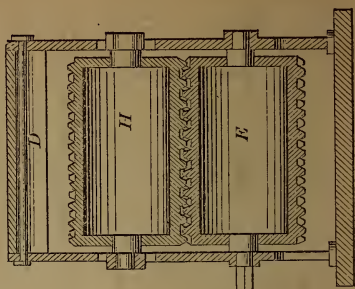
50915—J. Davis—Corn Planter.



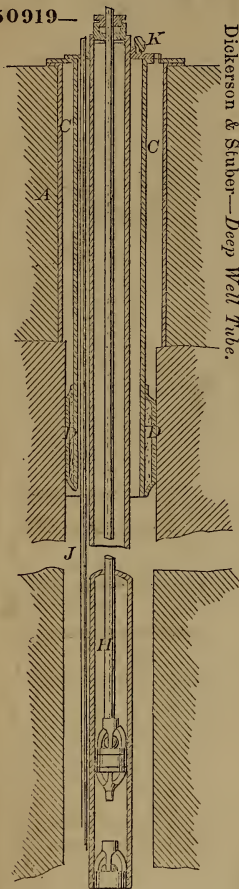
50918—F. Dickenson, Jr.—*Wagon Shaft Shackle.*



50921—J. J. Doyle—*Beef Steak Crusher.*

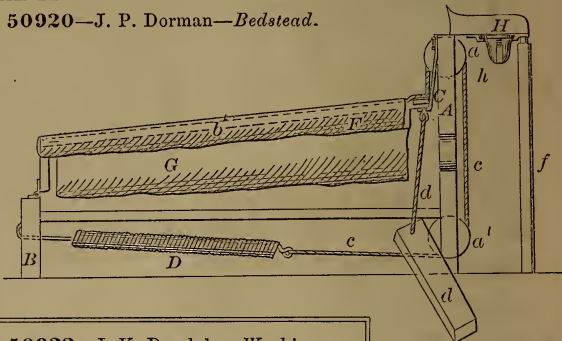


50919—

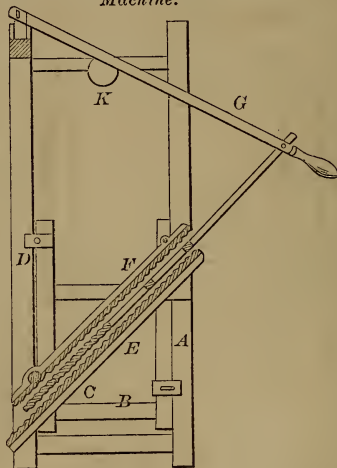


Dickenson & Stuber—*Deep Well Tube.*

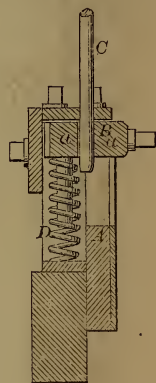
50920—J. P. Dorman—*Bedstead.*



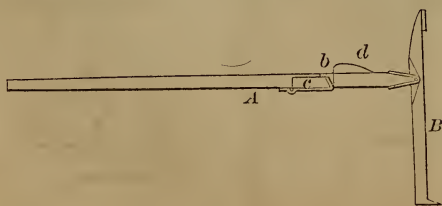
50922—J. K. Dugdale—*Washing Machine.*



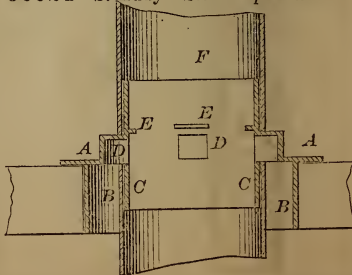
50923—
G. Dunham—*Nut Machine.*



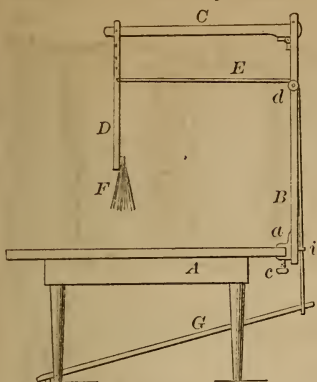
50925—E. A. Field—*Bale Hoop Strainer.*



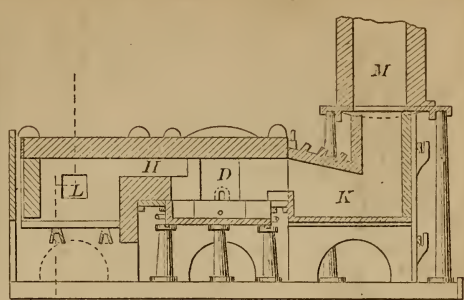
50924—S. Eddy—*Stove Pipe Thimble.*



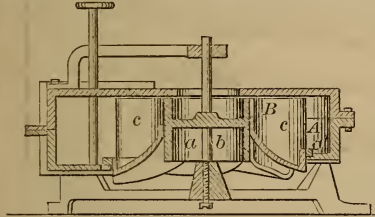
50926—H. Fisher—*Fly Brush.*



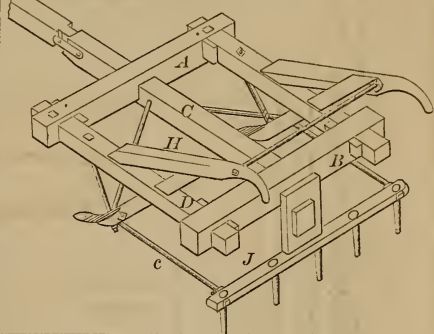
50929—D. & J. Hall—*Puddling Furnace.*



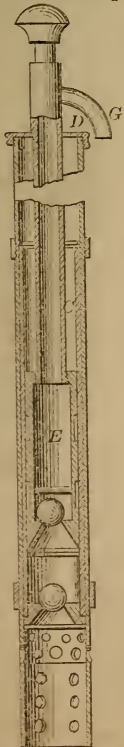
50928—U. H. Goble—*Water Wheel.*



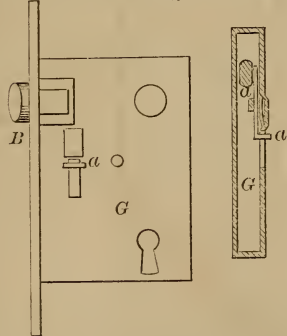
50930—S. Hall—*Cultivator.*



50932—S. E. Hewes—*Deep Well Pump.*



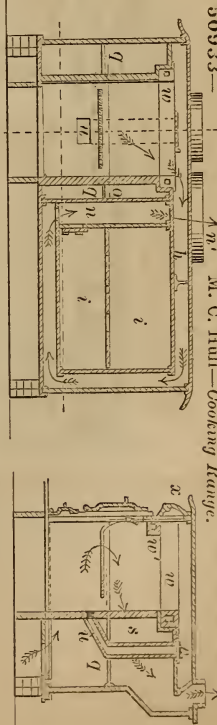
50931—E. Halley—*Reversible Latch.*



50937—H. Gerner—*Button.*



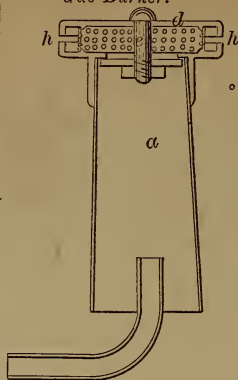
50933—M. C. Hall—*Cooking Range.*



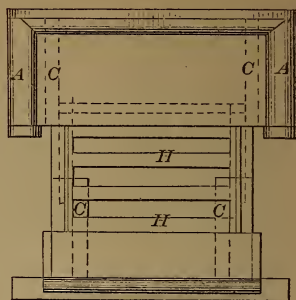
50934—E. Huson—*Artesian Well Drill.*



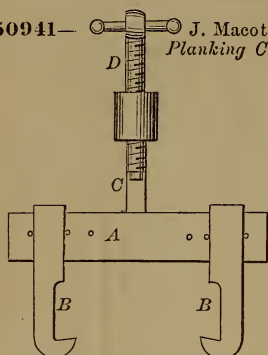
50938—T. J. Kelly—*Gas Burner.*



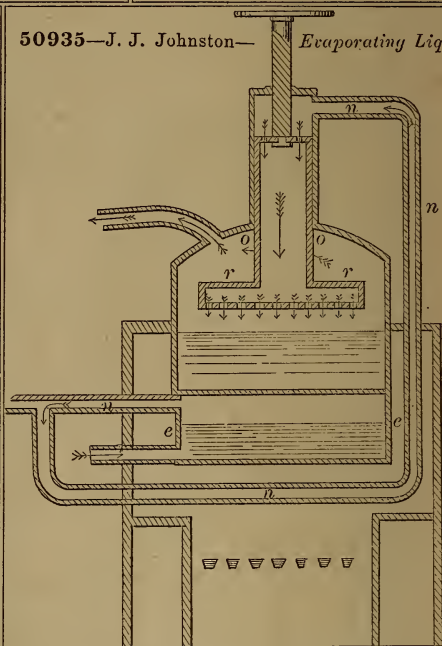
50939—J. Kena—*Sofa Bedstead.*



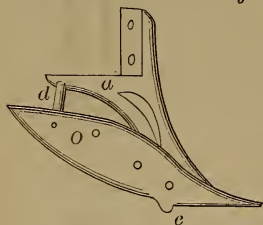
50941—J. Macotter—*Planking Clamp.*



50935—J. J. Johnston—*Evaporating Liquids.*

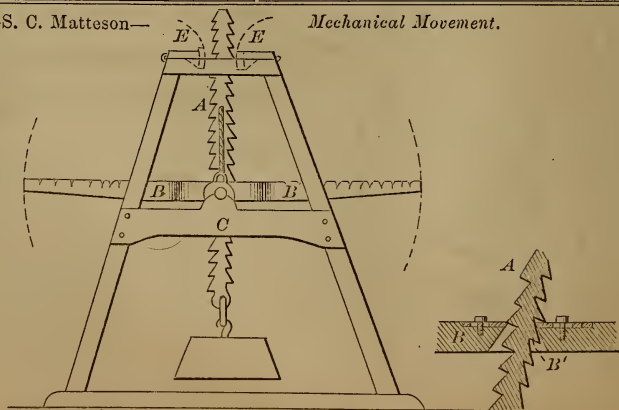


50942—A. Maschka—*Ploughshare.*

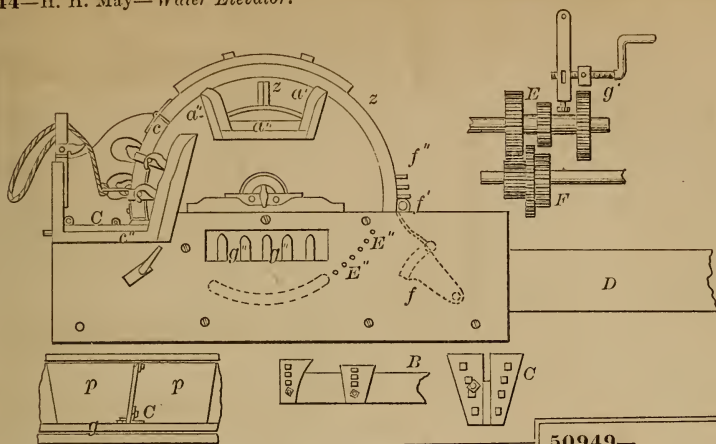


50943—S. C. Matteson—

Mechanical Movement.



50944—H. H. May—*Water Elevator.*

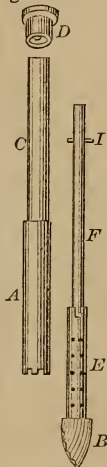


50946—A. J. Myer—*Signals.*



50949—
Pottingill & Mericle—

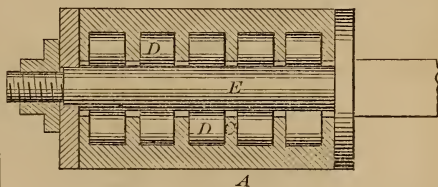
Sinking and Tying Wells.



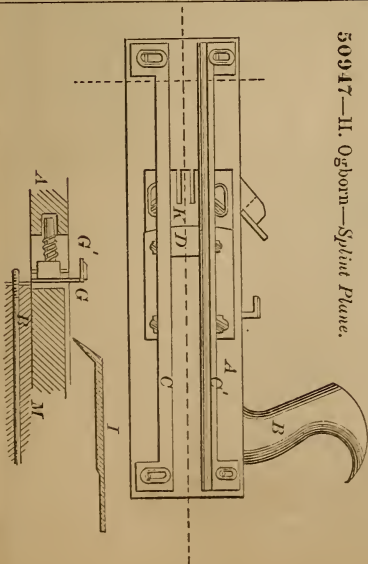
50951—D. A. Porter—*Knife Sharpener.*



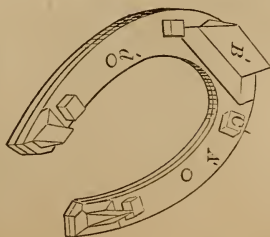
50948—E. P. Palmer—*Journal Box.*

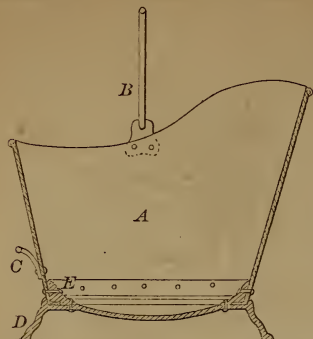
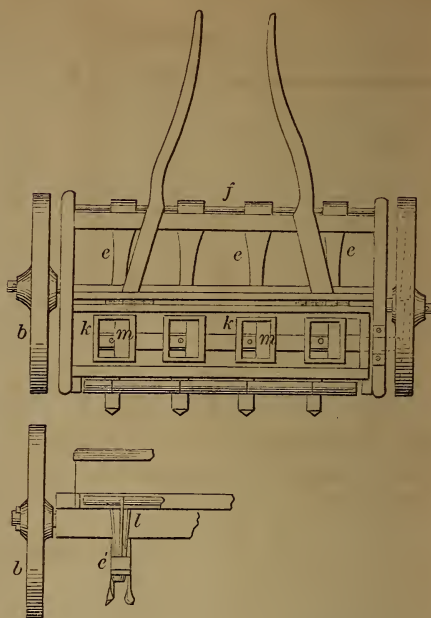
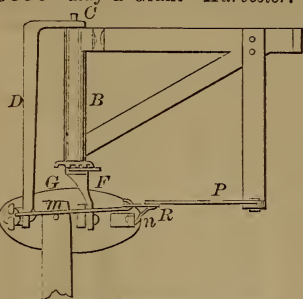
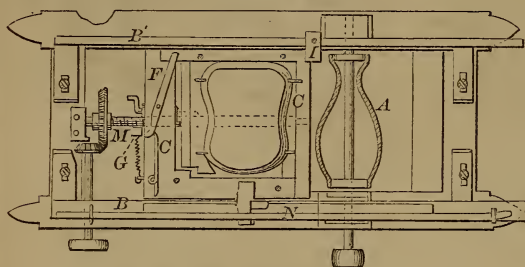
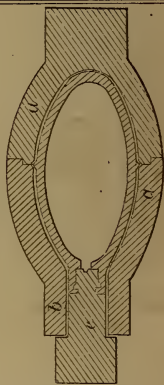
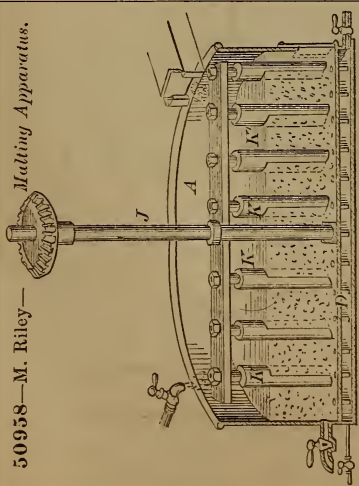
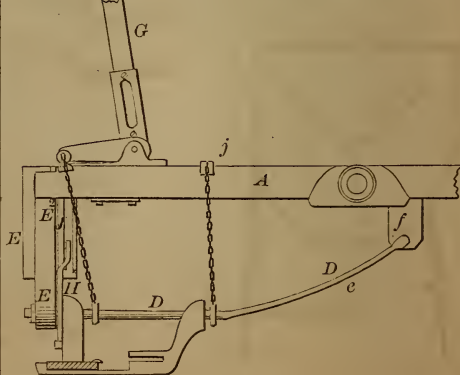


50947—H. Ogden—*Splint Plane.*

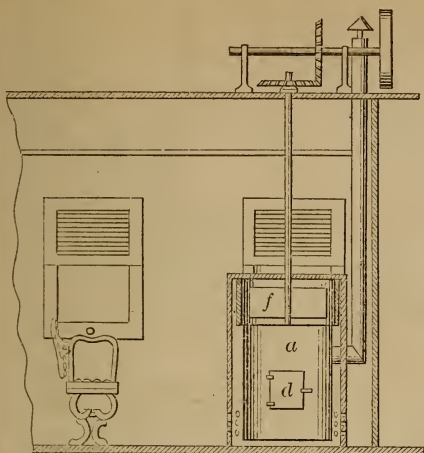


50952—I. R. Potter—
Horse Shoe Calk.

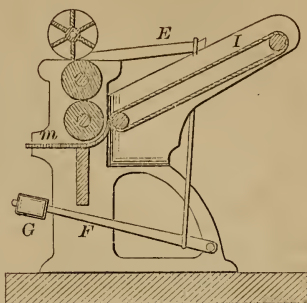


50953—H. S. Pratt—*Coal Scuttle.*50954—N. H. Purcell—*Grain Planter.*50956—Ray & Grant—*Harvester.*50955—E. Ransom—*Chair Seat Machine.*50957—F. B. Richardson—*Mould for Syringes.*50958—M. Riley—*Matting Apparatus.*50959—E. P. Russell—*Harvester.*

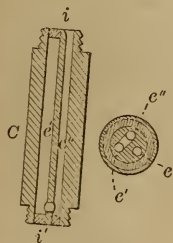
50960—T. H. B. Sanders—*For Ventilating Cars.*



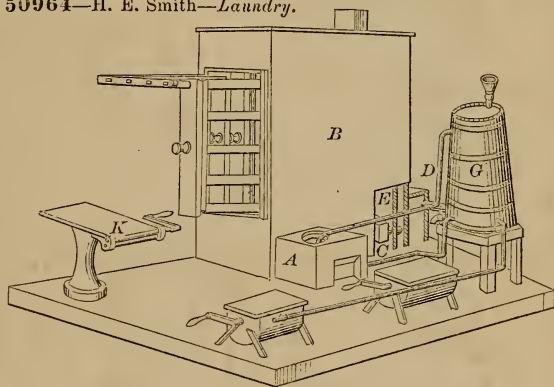
50961—C. G. Sargent—*Wool Washing.*



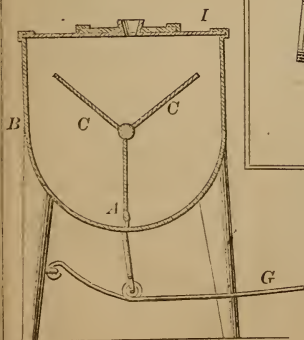
50962—F. Schulte—*Tobacco Pipe.*



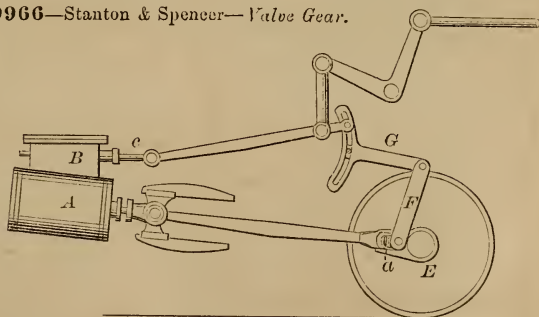
50964—H. E. Smith—*Laundry.*



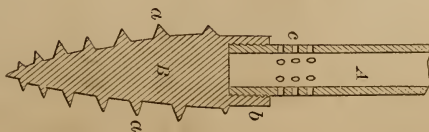
50963—R. L. Shute—*Churn.*

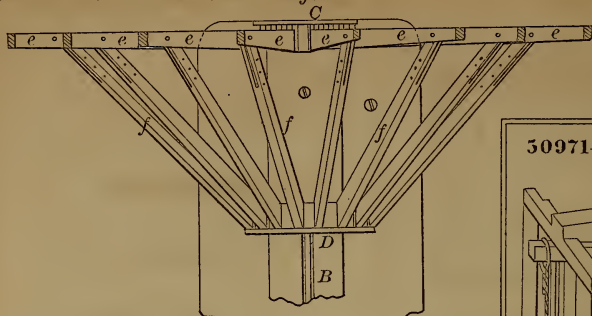
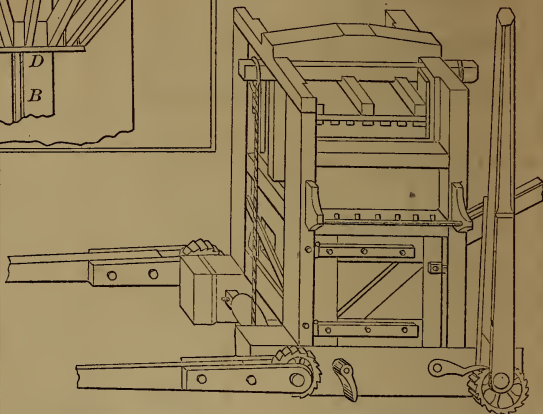
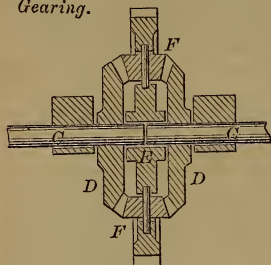
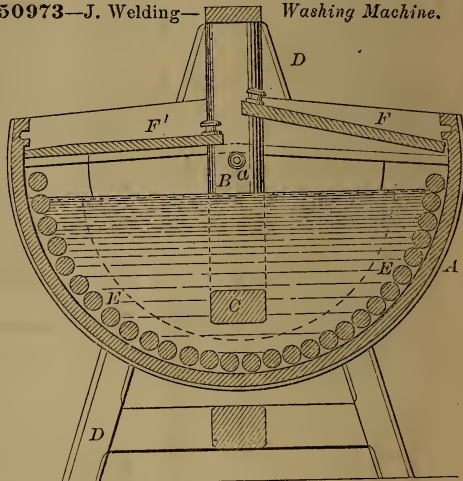
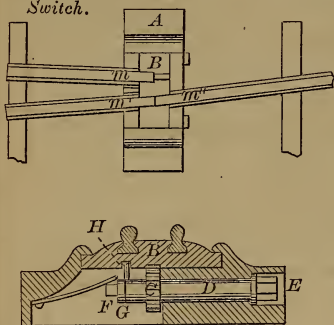


50966—Stanton & Spence—*Valve Gear.*

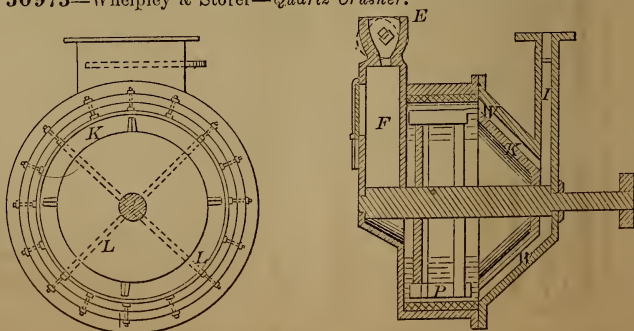


50967—R. H. St. John—*Sinking Wells.*

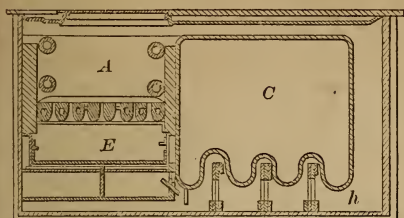


50968—G. F. Tilton—*Clothes Dryer.*50971—I. J. Way—*Cotton Press.*50969—A. Warner—*Harvester Gearing.*50973—J. Welding—*Washing Machine.*50972—Watson & Miller—*Railroad Switch.*

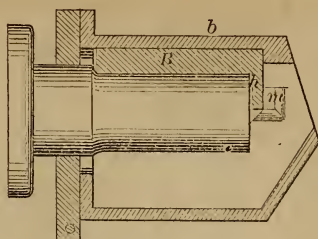
50970—

J. S. Warner—*Tatting Shuttle.*50975—Whelpley & Storer—*Quartz Crusher.*

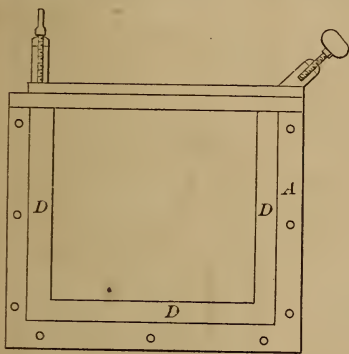
50977—E. Whiteley—*Range*.



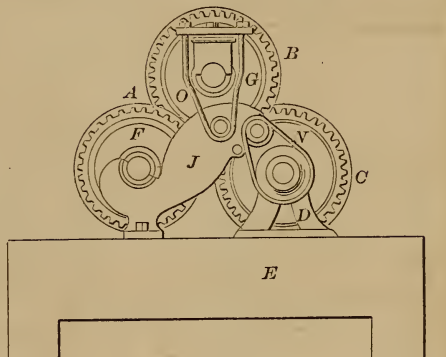
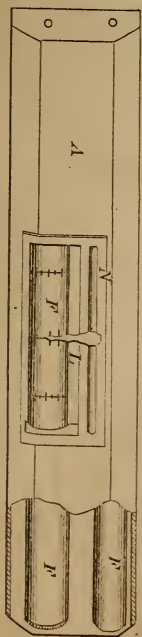
50982—R. C. Wright—*Journal Box.*



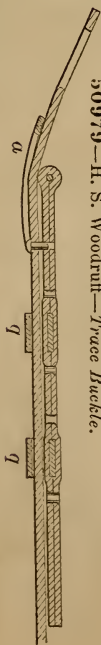
50981—N. Wright—*Photographic Bath.*



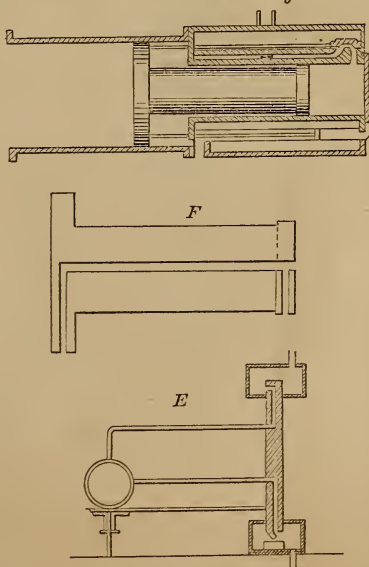
50978—0. E. Woodbury—*Cane Mill*.

50980—W. L. Woods—*Parallel Ruler*.

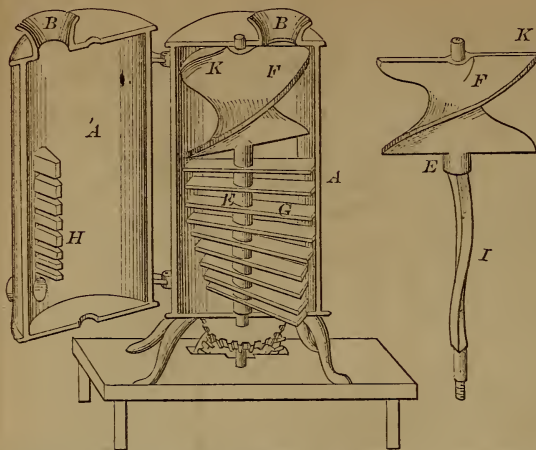
50979—H. S. Woodruff—Trace Buckle.



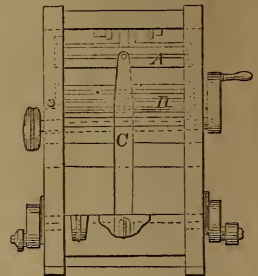
50983—G. Yellott—*Steam Engine.*



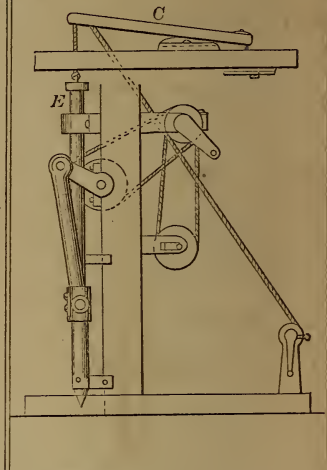
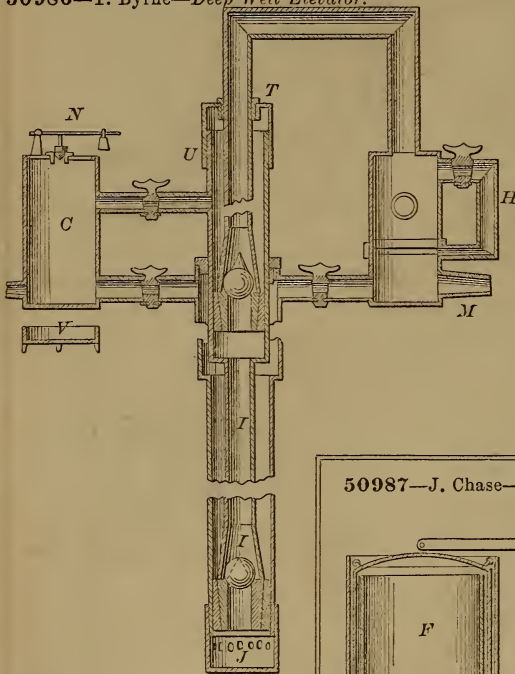
50984—D. Bearly—Meat Cutter.



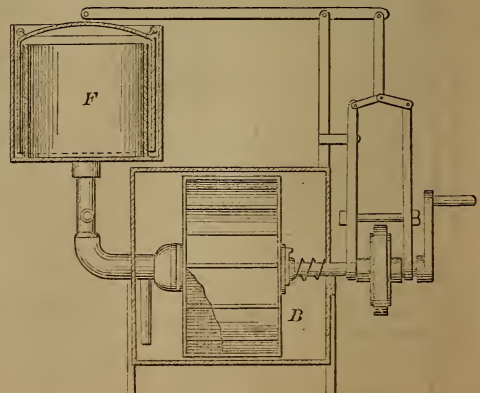
50985—J. Button—Drilling Machine.



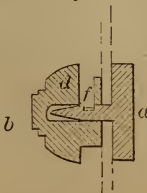
50986—T. Byrne—Deep Well Elevator.



50987—J. Chase—Carburetting Air.



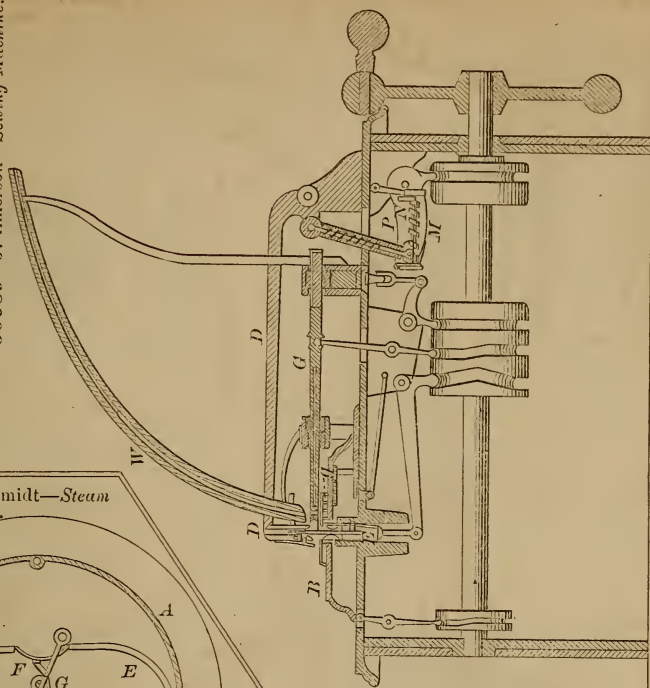
50988—F. Dahis—Button Fastening.



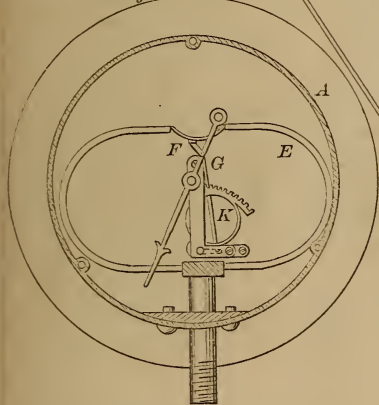
50992—Stearns & Corey—Buckle.



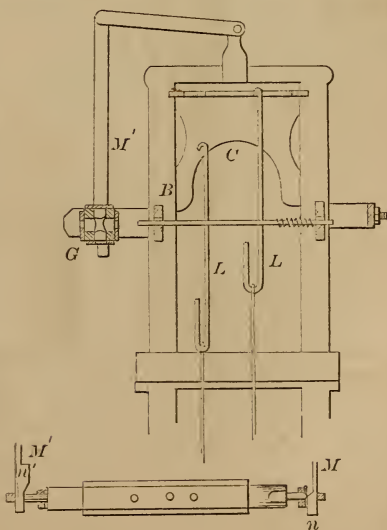
50989—J. Emerson—Sewing Machine.



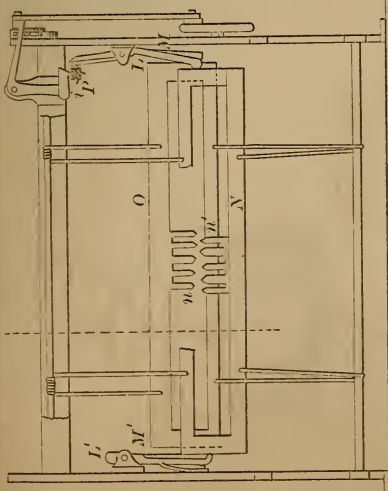
50991—C. C. Schmidt—Steam Gauge.



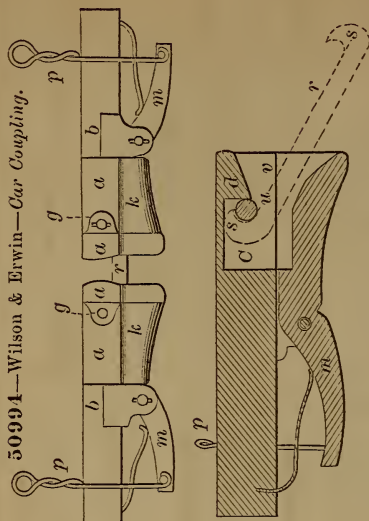
50993—L. D. Valetton—Jacquard Loom.



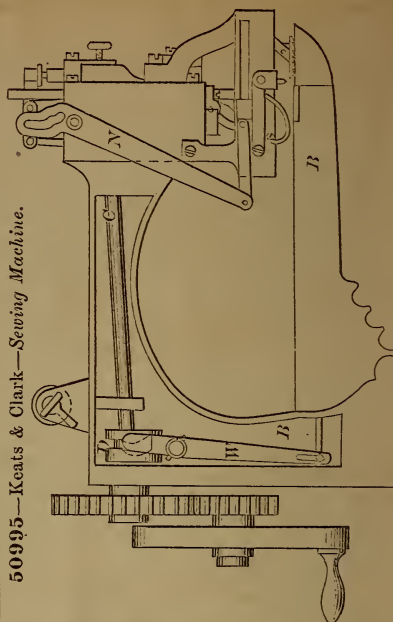
50990—C. Roder—Loom.



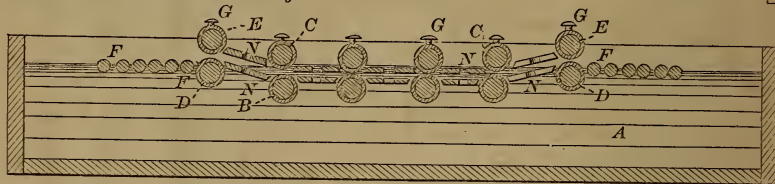
50994—Wilson & Erwin—Car Coupling.



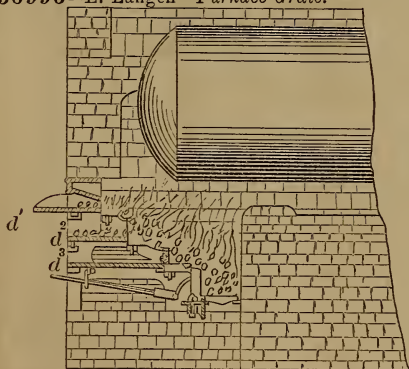
50995—Keats & Clark—Sewing Machine.



50998—H. W. Adams—Tanning.



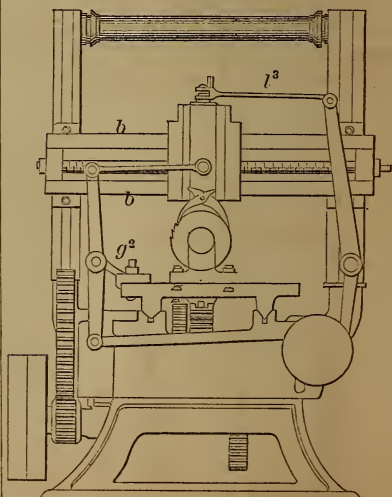
50996—E. Langen—Furnace Grate.



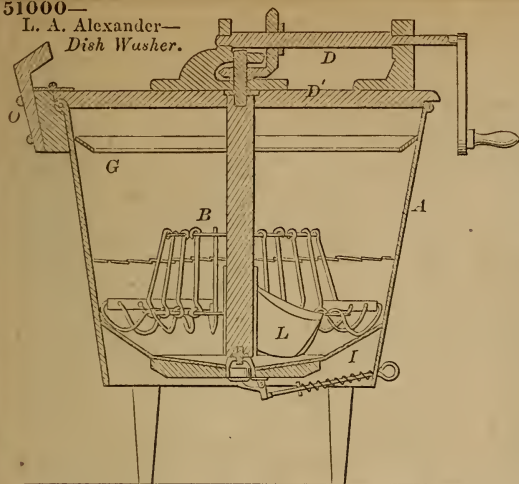
50999—Albright & De Lange—Hat Ventilator.



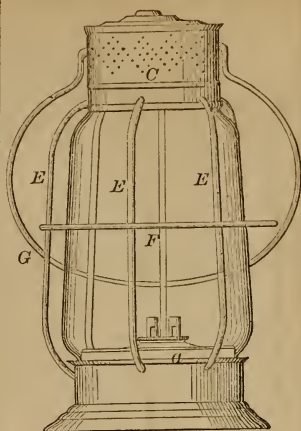
50997—W. Weild—For Making Fluted Rollers.



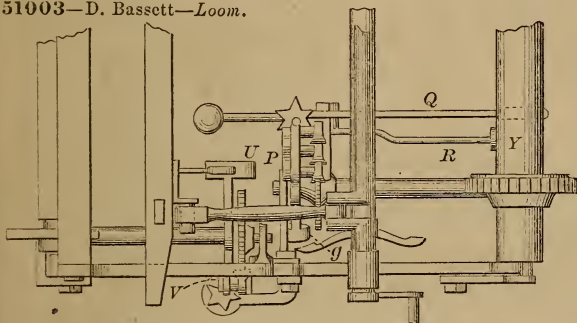
51000—
L. A. Alexander—
Dish Washer.



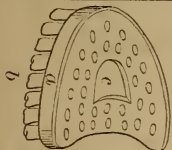
51005—L. F. Betts—*Lantern.*



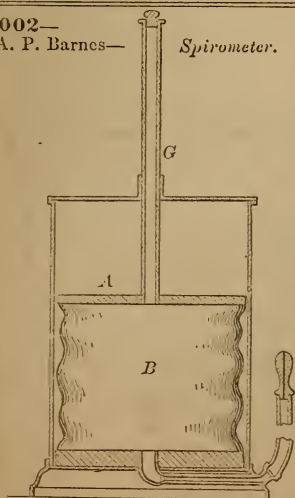
51003—D. Bassett—*Loom.*



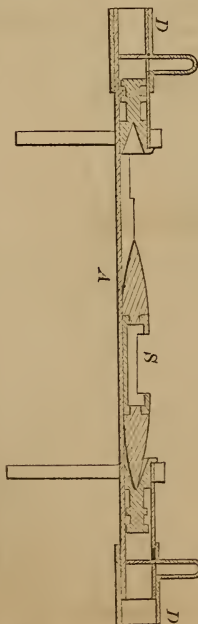
51001—
W. Ballard—
Artificial Teeth.



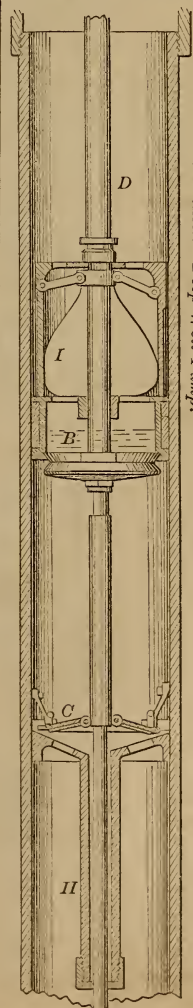
51002—
A. P. Barnes—
Spirometer.

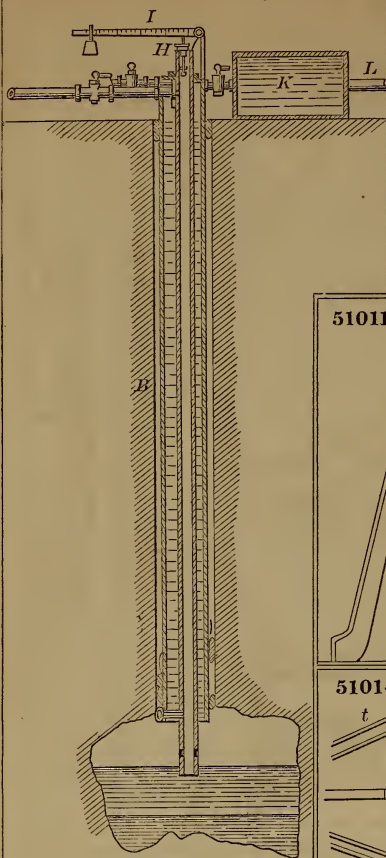
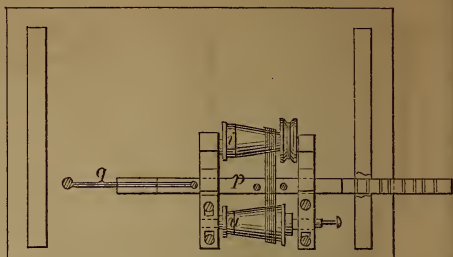
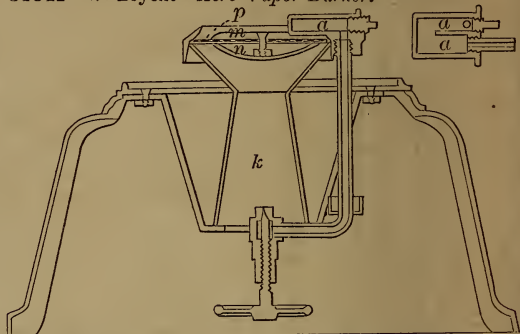
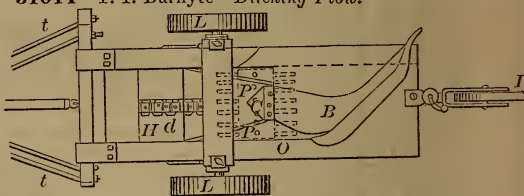
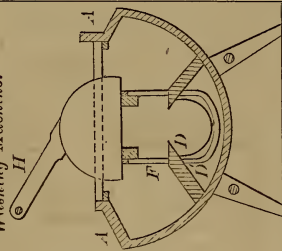
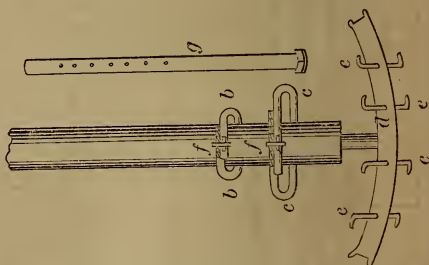
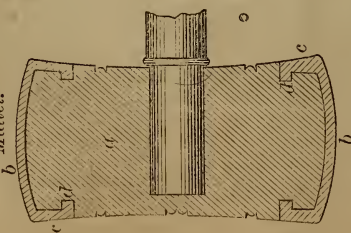
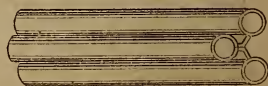


51006—D. Bickford—*Loom Shuttle.*

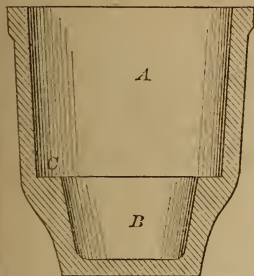


51007—R. Boeklen—*Deep Well Pump.*

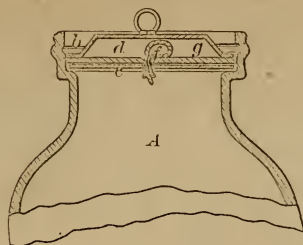


51008—R. Boeklen—*Oil Ejector.*51012—A. Buchanan—*Sewing Machine.*51011—W. Bryent—*Aero-Vapor Burner.*51014—T. I. Burhyte—*Ditching Plow.*51015—R. P. Burlingame—*Washing Machine.*51013—J. Buchanan—*Broom Head.*51016—L. Byrnes—*Croquet Mallet.*51017—S. M. Carey—*Sheet Metal Tubing.*

51018—I. H. Chadwick—*White Lead Pot.*



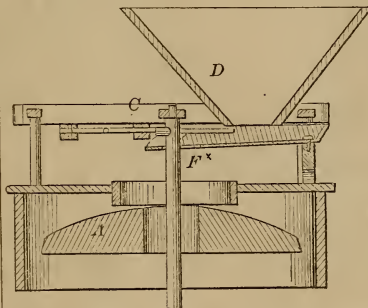
51020—W. Chrysler—*Fruit Jar Stopper.*



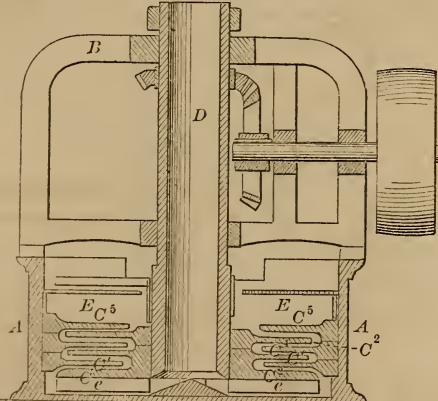
51024—J. Cunningham—*Tobacco Pipe.*



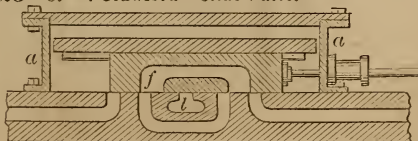
51022—E. H. Cotton—*Grinding Mill.*



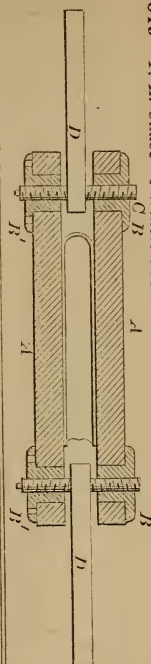
50021—M. H. Collins—*Amalgamator.*



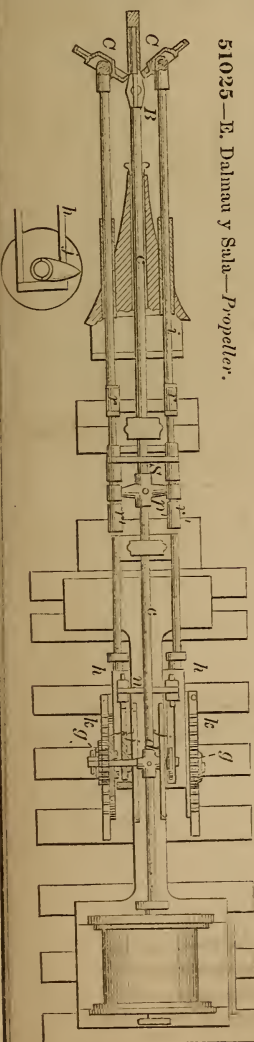
51023—C. W. Crawford—*Slide Valve.*

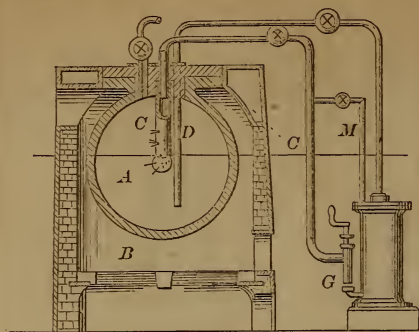
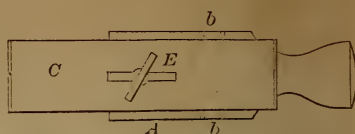
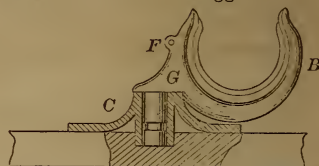
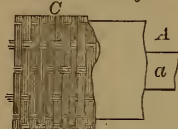
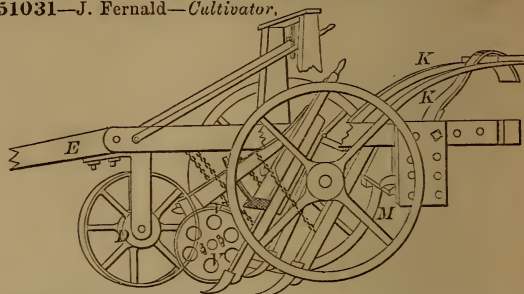


51019—T. L. Chase—*Portable Press.*



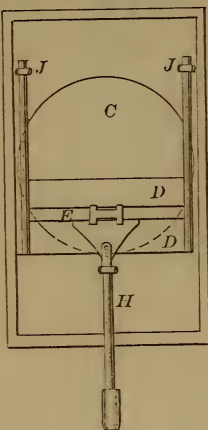
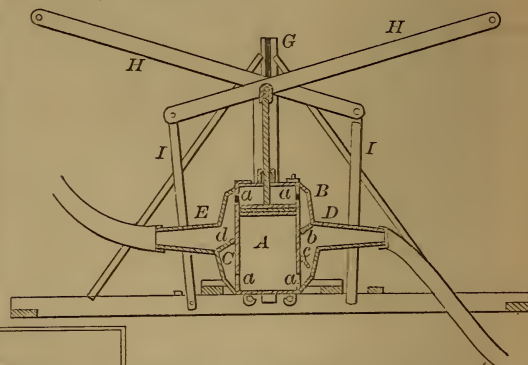
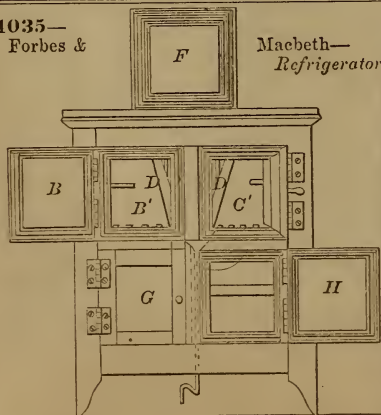
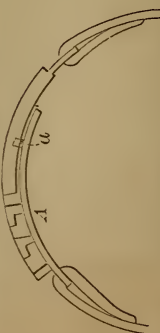
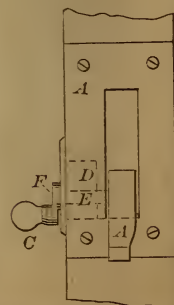
51025—E. Dalmau y Sala—*Propeller.*



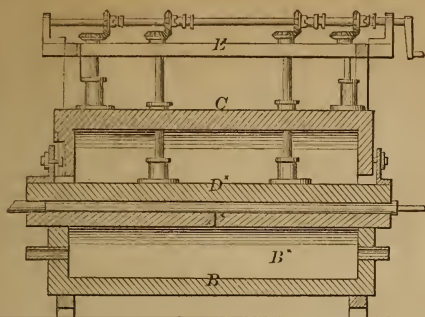
51026—E. Danford—*Steam Generator.*51030—C. R. Elmer—*Mill Stone Pick.*51032—I. C. & F. W. Flagg—*Row Lock.*51027—W. B. Davis—*Piston Rod Packing.*51031—J. Fernald—*Cultivator.*

51029—H. C. Ellinwood—

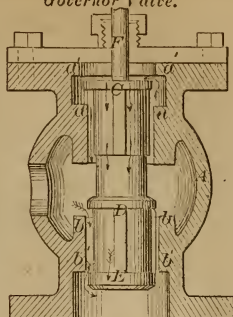
Saw Pitman.

51028—J. Eldridge—*Pump.*51035—
Forbes &Macbeth—
*Refrigerator.*51033—H. H. Fleming—*Horse Collar Fastener.*51034—A. P. Floyd—
Door Bolt.

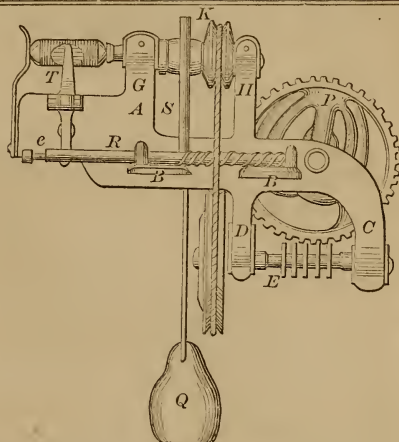
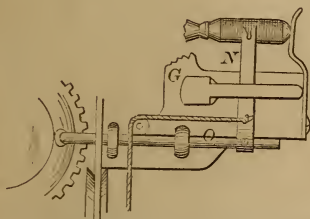
51036—J. B. Forsyth—Curing India Rubber.



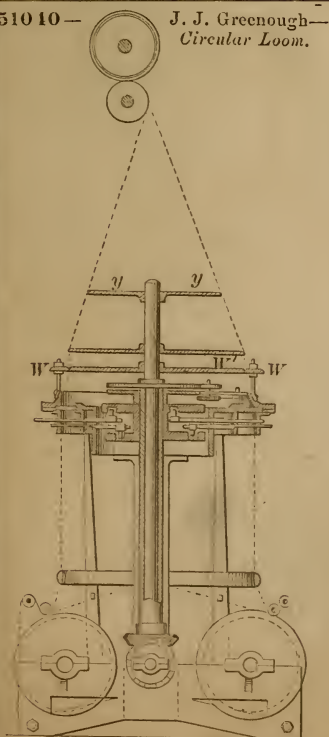
51037—Gardner & Robertson—Governor Valve.



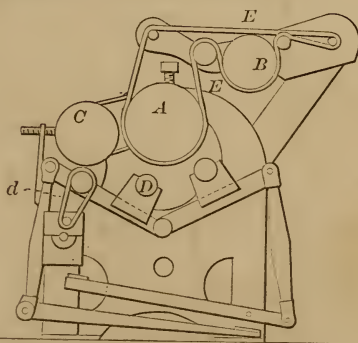
51038—J. Gibbs—Tape Loom.



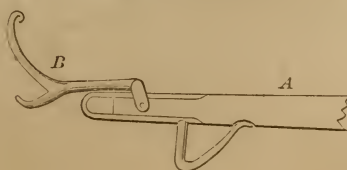
51040—J. J. Greenough—Circular Loom.

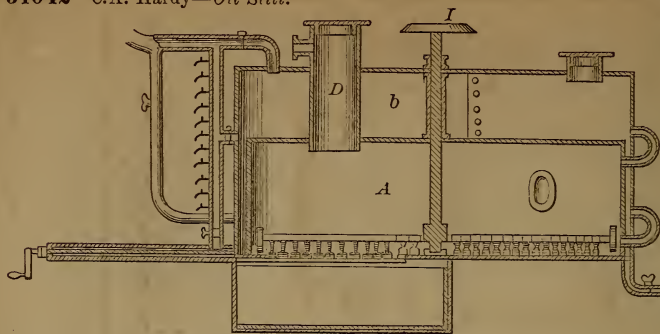
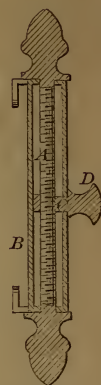
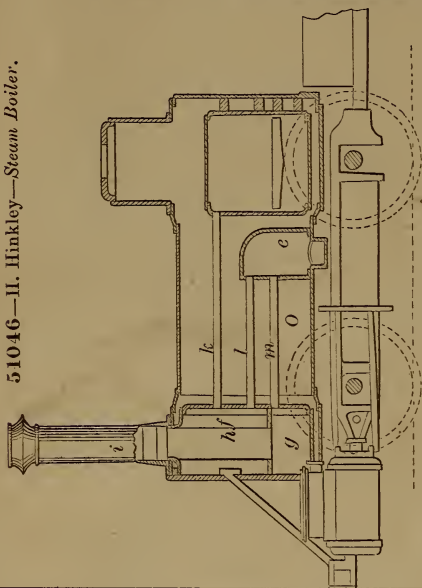


51039—J. Green—Printing Calico.

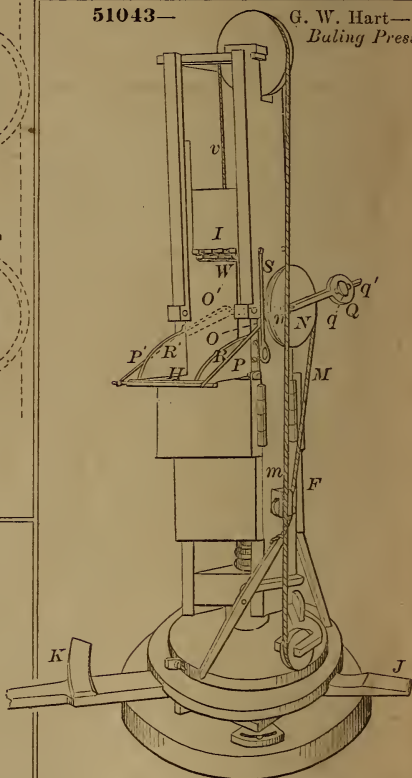
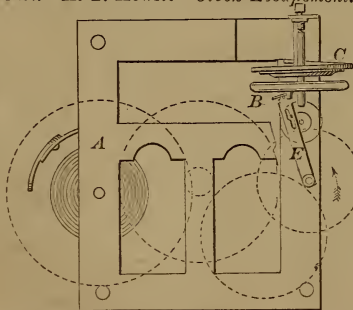


51041—C. B. Guy—Rein Guard.

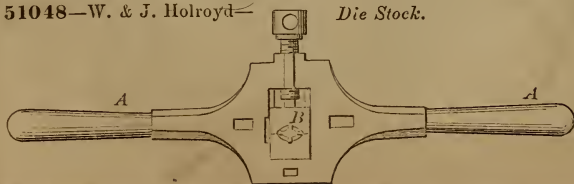


51042—C.A. Hardy—*Oil Still.*51045—M. Hey—*Curtain Cord Tightener.*51046—H. Hinkley—*Steam Boiler.*

51043—

G. W. Hart—*Baling Press.*51044—H. T. Hewitt—*Clock Escapement.*

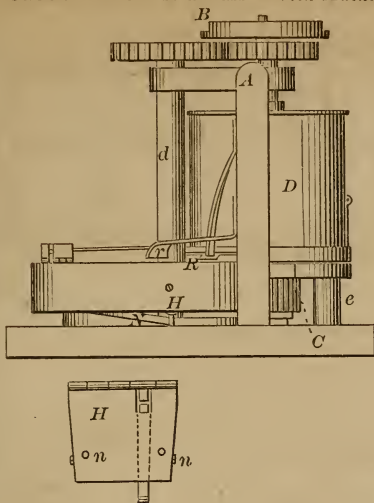
51048—W. & J. Holroyd—

Die Stock.51047—D. E. Holden—*Darning Last.*

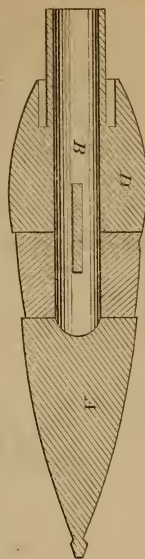
51049—
J. G. C. Horton—
Weather Strip.



51050—Hotchkiss & Buss—Brick Machine



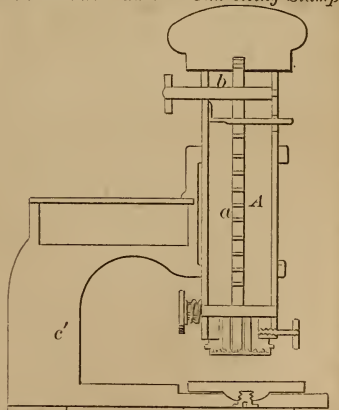
51051—Houghton & Lewis—Tube Well Drill.



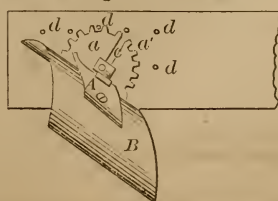
51052—Hossie & Reed—Flexible Tubing.



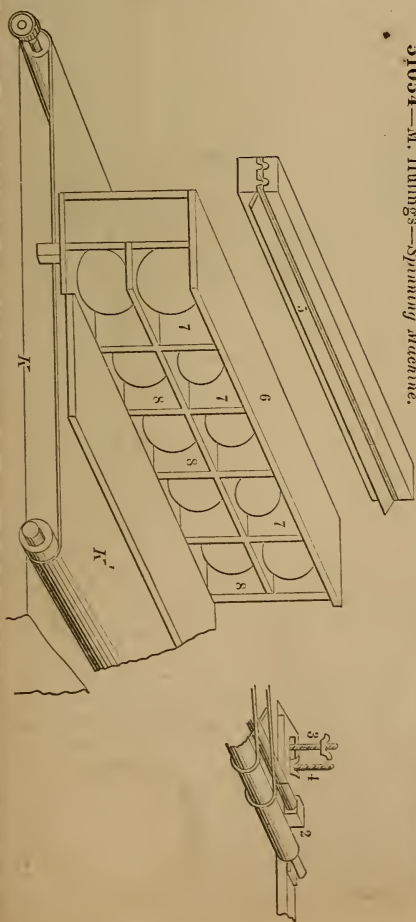
51053—T. S. Hudson—Cancelling Stamp.

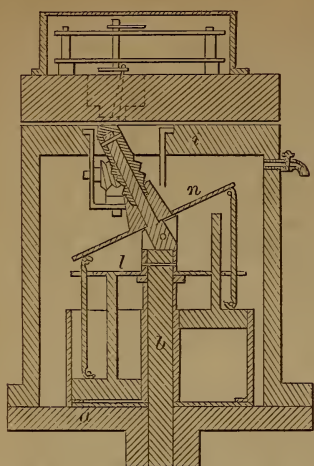
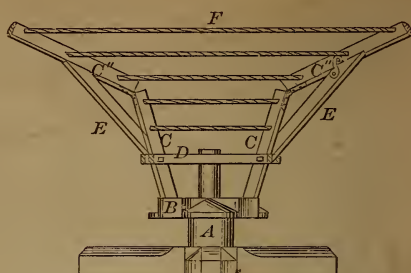
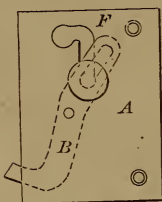
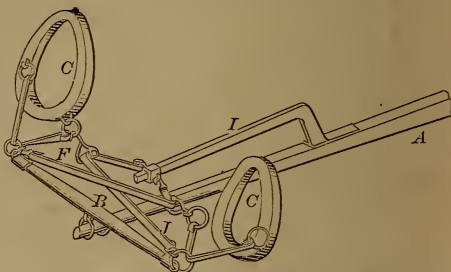
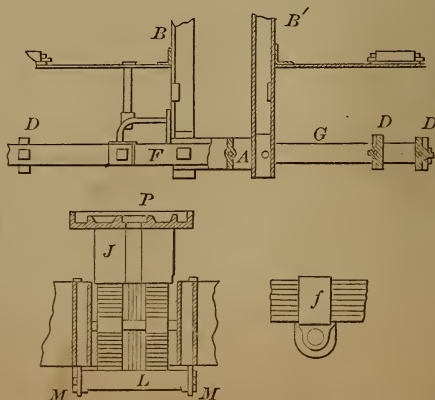
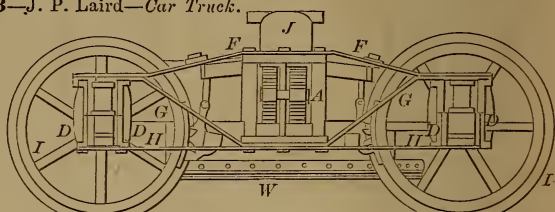
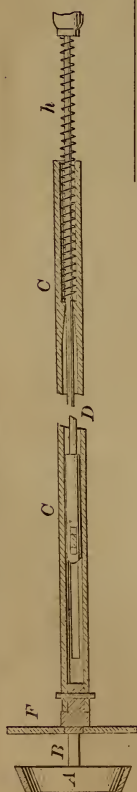


51055—H. Ingraham—Cultivator.



51054—M. Hulings—Spinning Machine.

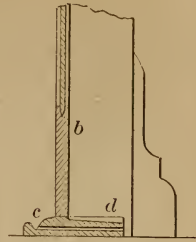


51056—H. Isham—*Water Meter.*51057—C. H. Jackson—*Clothes Dryer.*51061—S. P. Kittle—*Bed Bottom.*51059—H. Jordan—*Door Fastener.*51062—F. D. Ladenberger—*Harness.*51063—J. P. Laird—*Car Truck.*51058—Jones & Gatchell—*Clamping Pontil.*

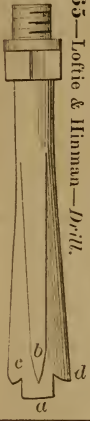
51064—T. C. Law—*Boiler.*



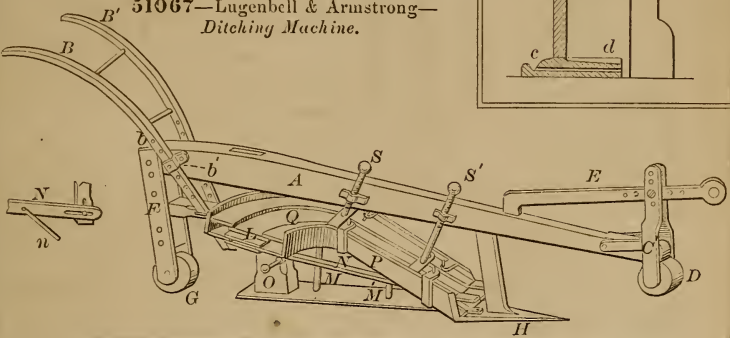
51066—C. Loring—*Threshold.*



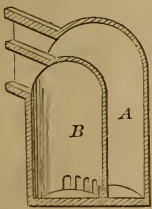
51065—Lofie & Himmman—*Drill.*



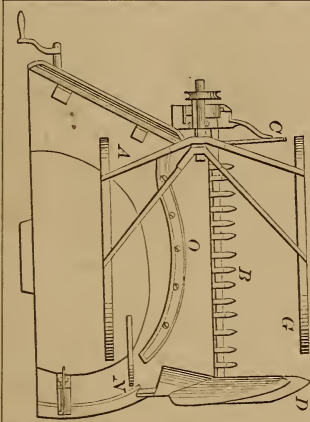
51067—Lugenbell & Armstrong—*Ditching Machine.*



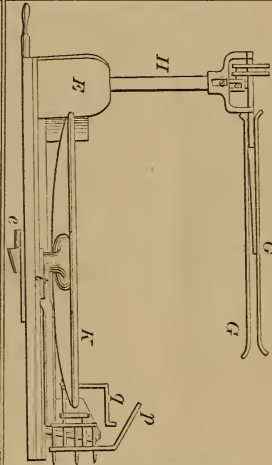
51068—D. McAfee—*Glass Pot.*



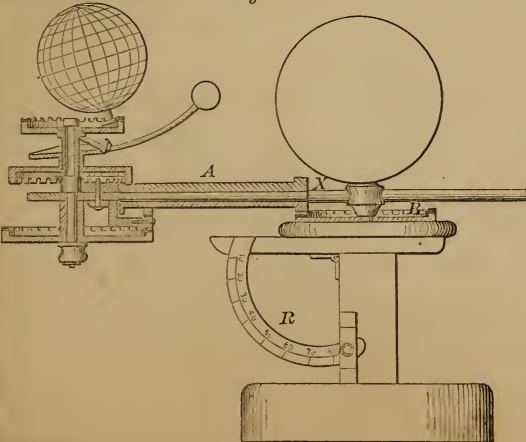
51070—L. Miller—*Harester Rule.*



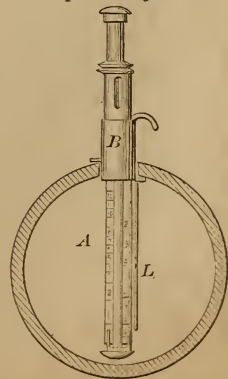
51071—L. Miller—*Harester Rule.*



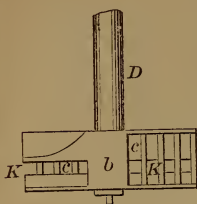
51072—J. G. Moore—*Orrery.*



51069—W. C. McCarthy—*Liquor Gauge.*



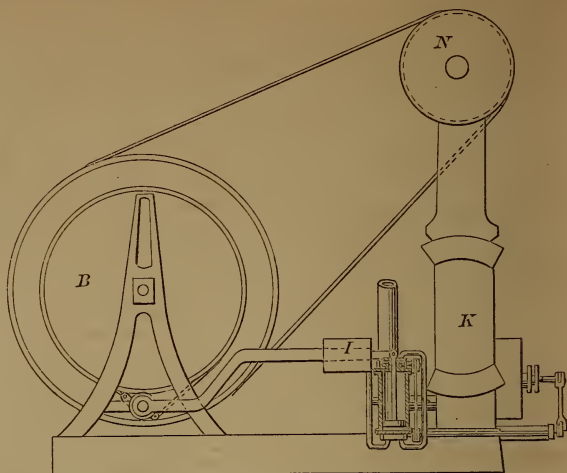
51073—
C. R. Moorhouse—
Churn.



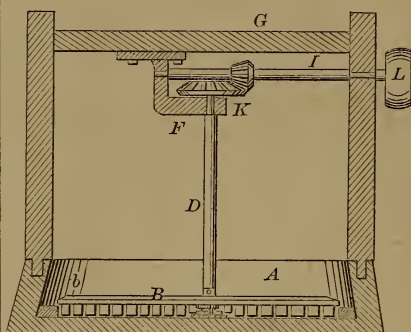
51074—
J. H. Mumma—
Broom Attachment.



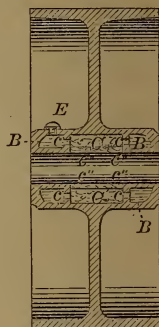
51076—C. R. & N. P. Otis—*Hoisting Apparatus.*



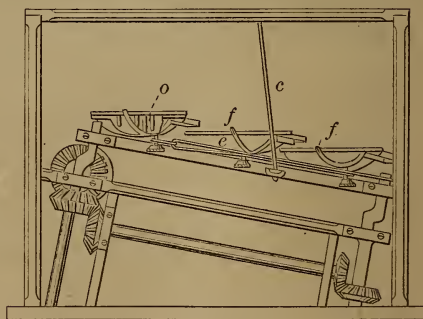
51075—G. C. Napheys—*Refining Lard*



51077—N. P. Otis—
Loose Pulley.



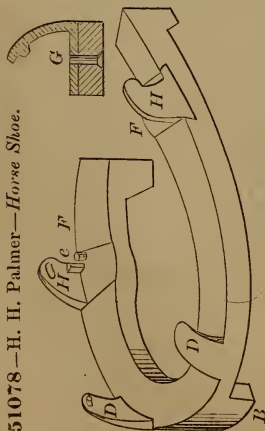
51079—C. C. Peck—*Amalgamator.*



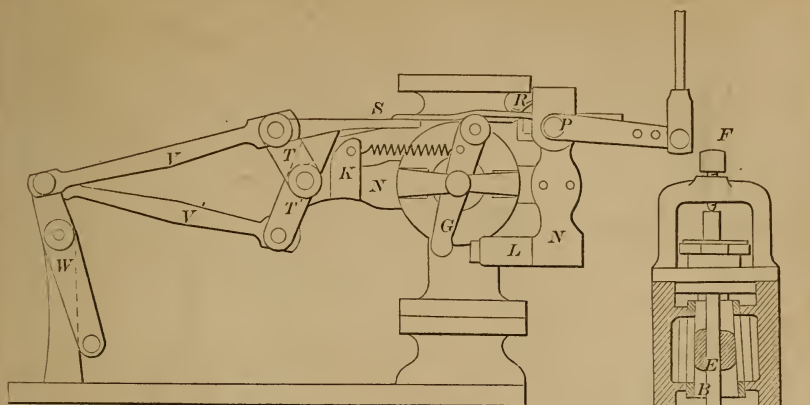
51080—C. A. Perry—*Cigar Case.*



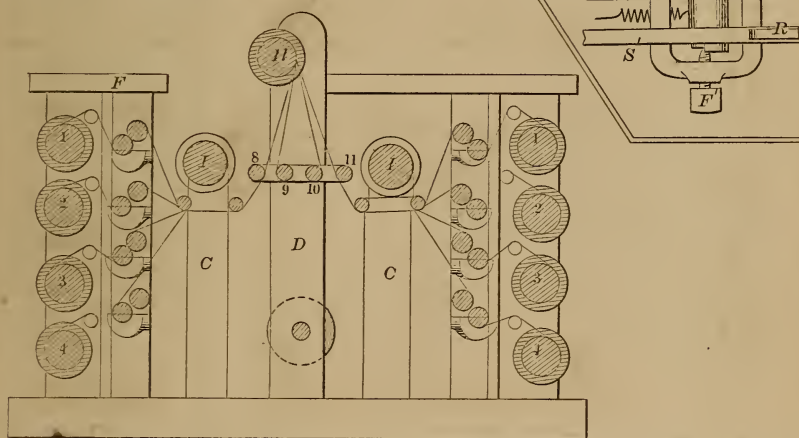
51078—H. H. Palmer—*Horse Shoe.*



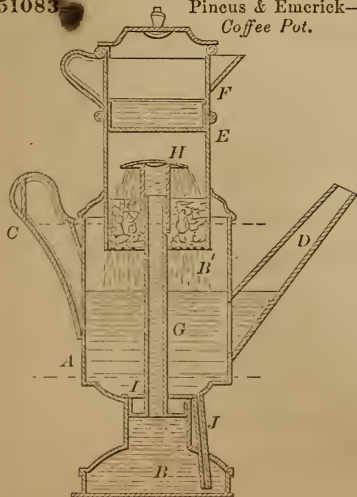
51081—W. G. Pike—*Variable Cut-off.*



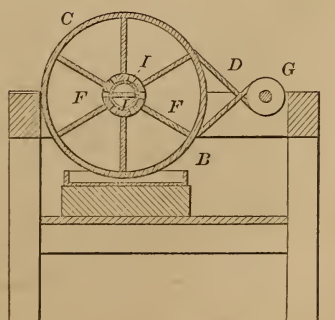
51082—Potter & Sheldon—*Dressing Warp.*



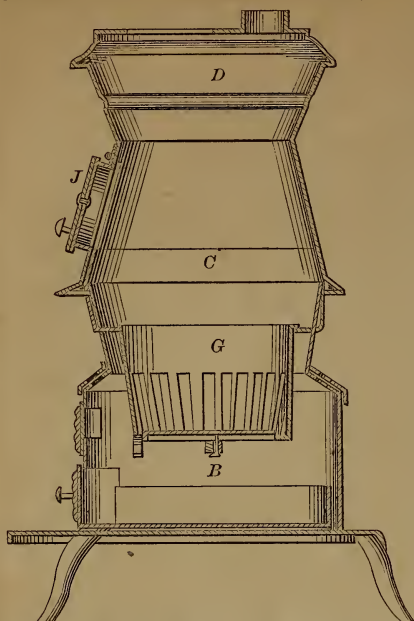
51083—Pineus & Emerick—*Coffee Pot.*



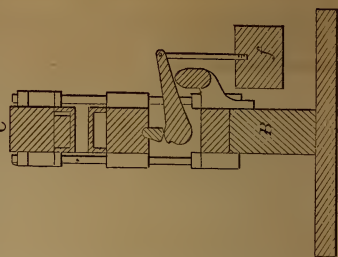
51084—T. H. Quick—*Desiccating Eggs.*



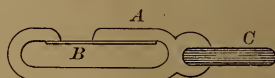
51085—Rathbone & Hailes—Coal Stove.



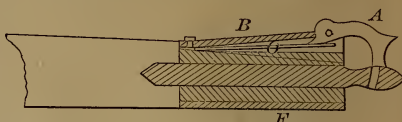
51087—W. Rowland—Shaping and Hardening Steel.



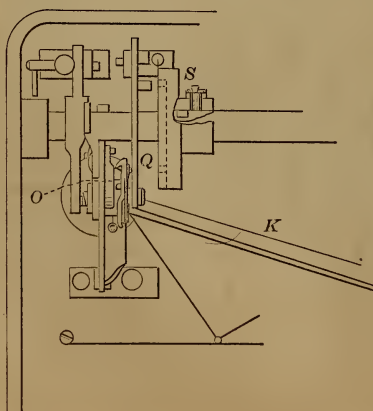
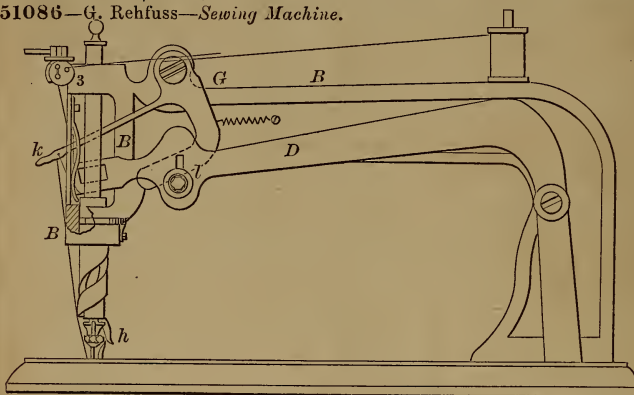
51088—C. W. Saladee—Snap Link.



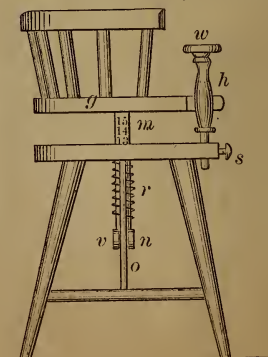
51089—C. W. Saladee—Snap Hook.



51086—G. Rehfuss—Sewing Machine.



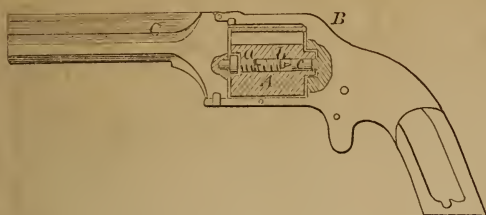
51091—Shedd & Glockner—Child's Chair.



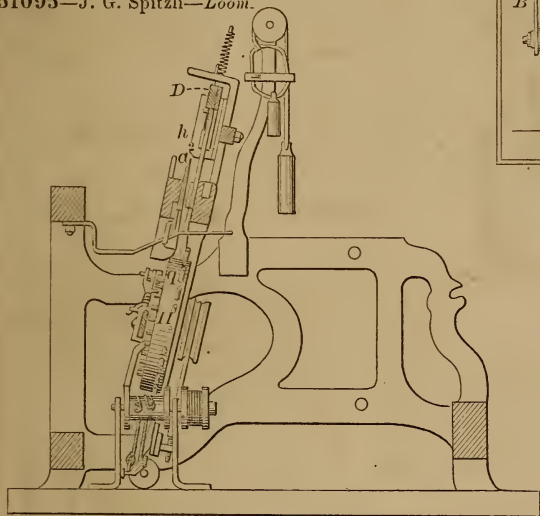
51090—Sandford & Deebe—Fountain Pen.



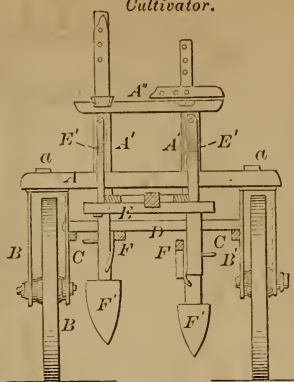
51092—Smith & Wesson—Fire Arm.



51095—J. G. Spitzli—Loom.

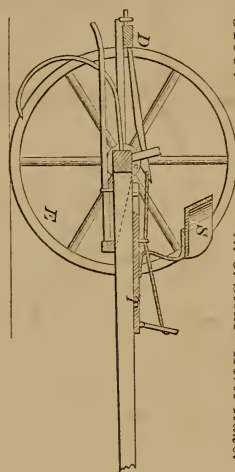


51096—W. W. St. John—Cultivator.

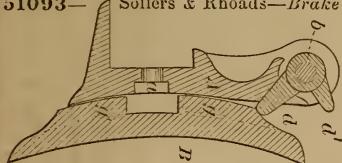


51097—

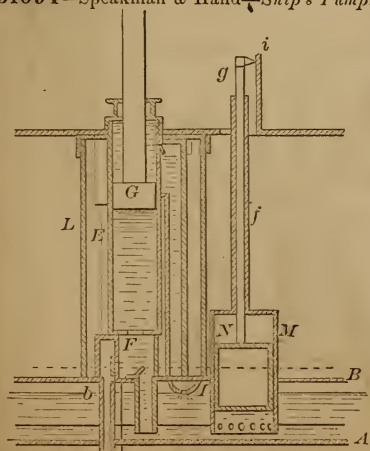
A. C. Stone—Horse Rake.



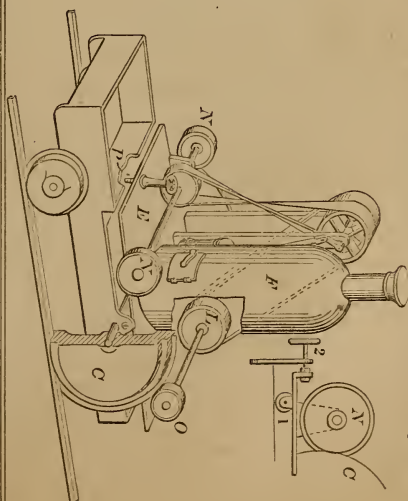
51093—Sollers & Rhoads—Brake Shoe.

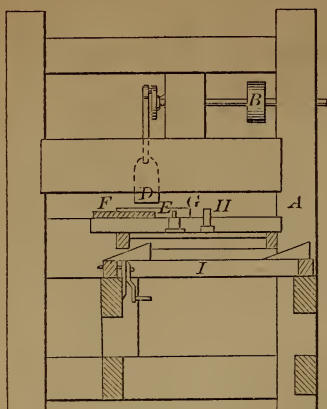
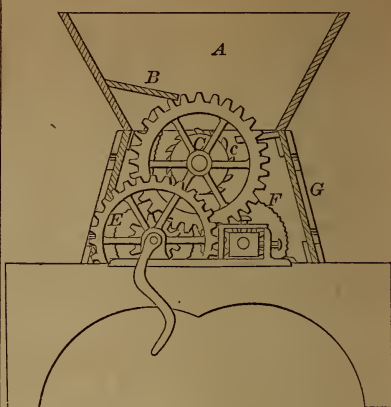
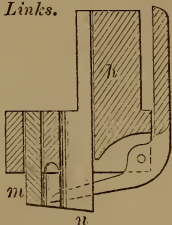
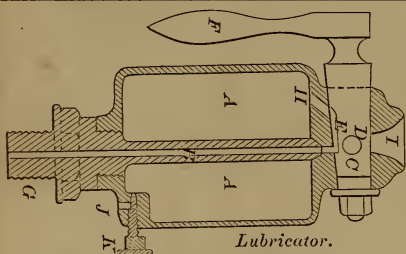
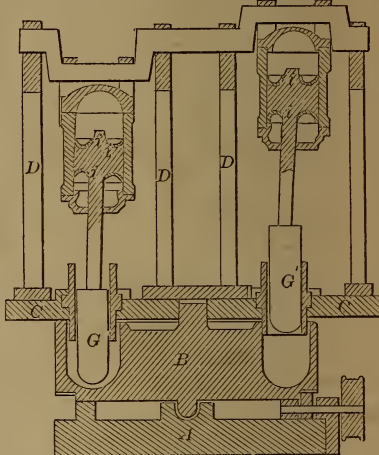


51094—Speakman & Hand—Ship's Pump.

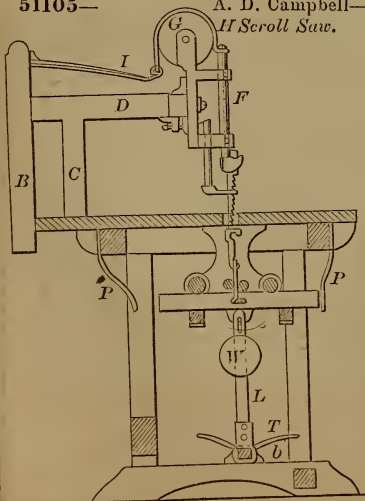
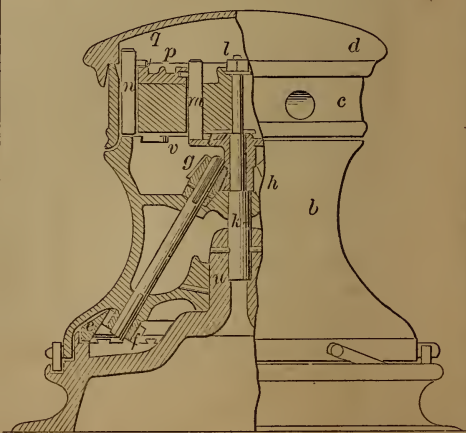


51098—L. C. Story—Speed Locomotive Running Gear.

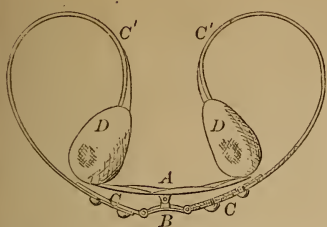


51100—J. Stufflebern—*Mortising Machine.*51101—Thomas & Mast—*Cider Mill.*51102—F. Van Patten—*Trimming Chain Links.*51104—Webster & Morgan—*Ore Crusher.*

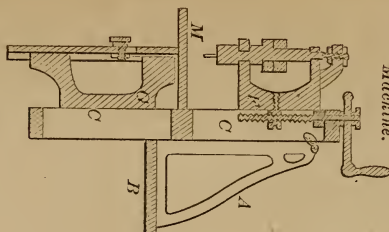
51106—J. P. Ferris—

51105—A. D. Campbell—*H Scroll Saw.*51107—D. N. B. Coffin, Jr—*Power Capstan.*

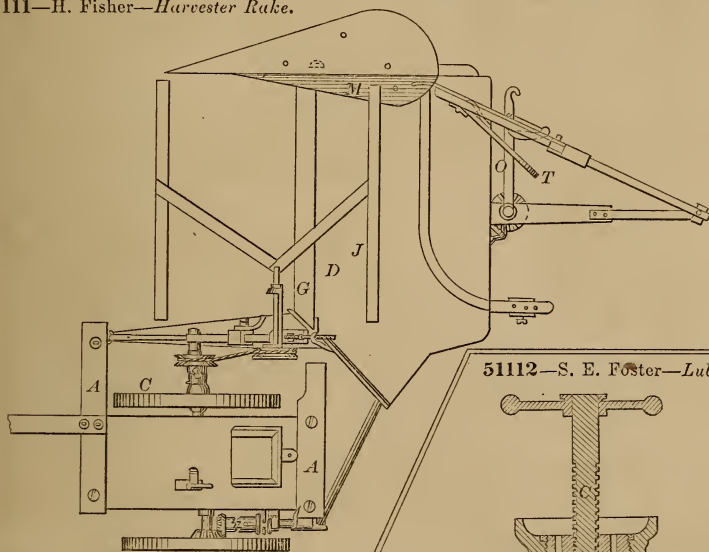
51108—R. E. Downie—*Truss*.



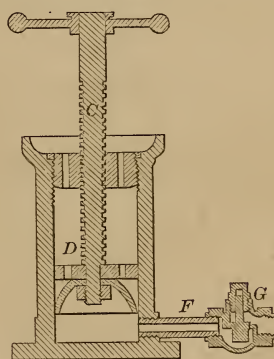
51113—A. Hatch—*Drilling Machine*.



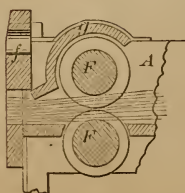
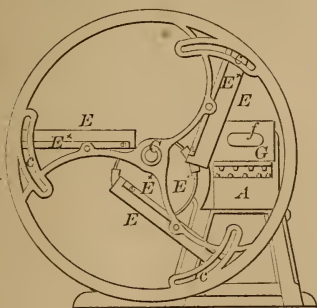
51111—H. Fisher—*Harvester Rake*.



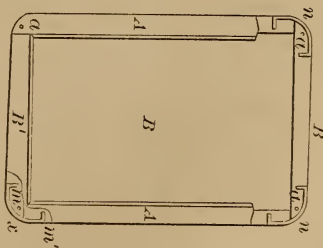
51112—S. E. Foster—*Lubricator*.



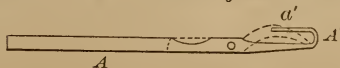
51116—Leggett & Gittus—*Straw Cutter*.

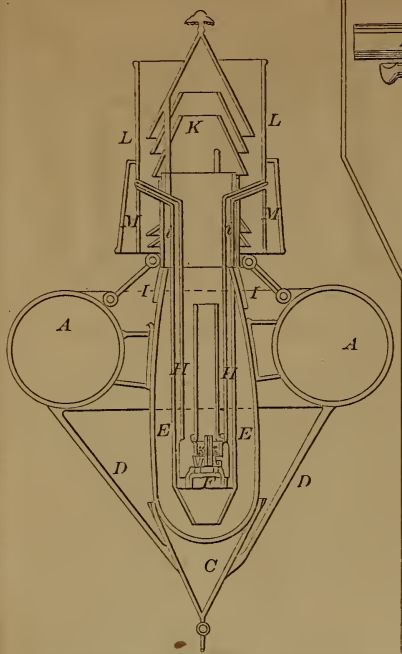
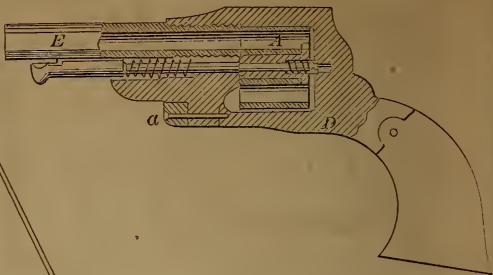
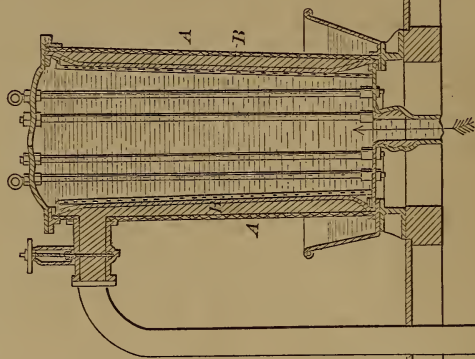
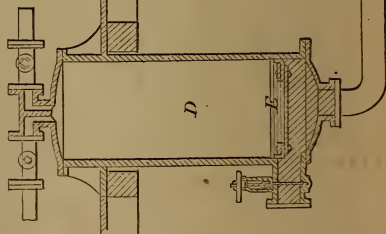
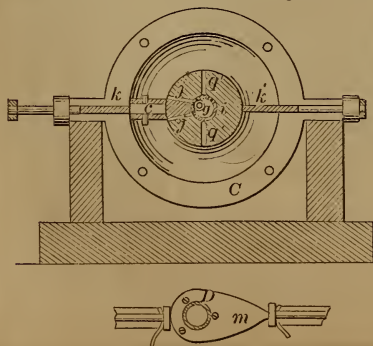


51114—J. La Bar—*School Slate*.

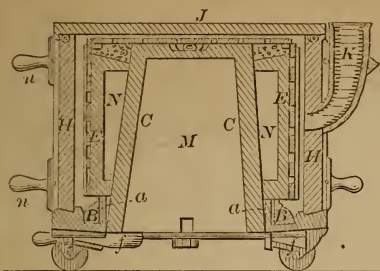


51115—I. W. Lamb—*Knitting Machine Needle*.

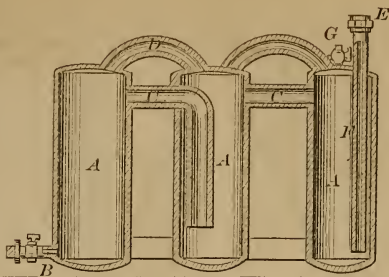


51120—I. B. Quinby—*Fish Decoy.*51117—W. Mason—*Fire Arm.*51124—L. P. R. De Massy—*Filtering Press.*51122—J. Torrance—*Steam Engine.*51121—J. Stratton—*Gas Burner.*

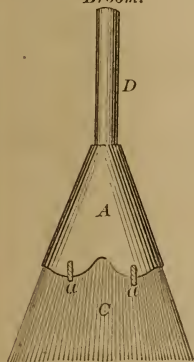
51125—L. Lillie—Moulds for Casting Safes.



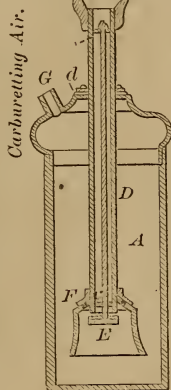
51130—E. Bigelow—For Cooling Soda Water.



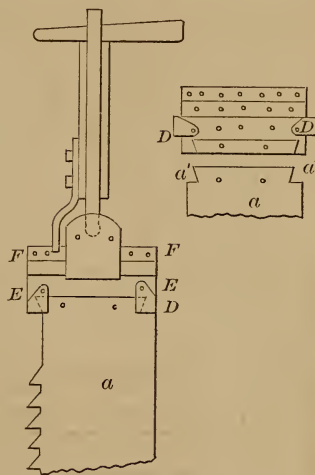
51127—J. & G. Bacon—Broom.



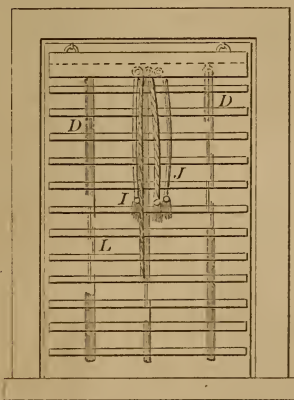
51128—D. Bickford—



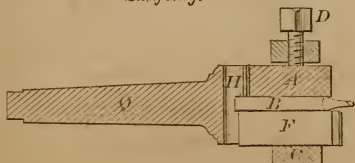
51126—E. Andrews—Saw Mill.



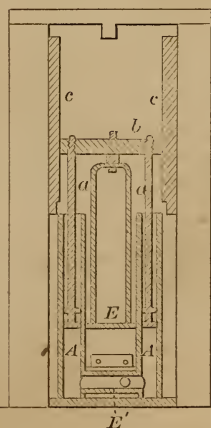
51131—C. D. Blinn—Venetian Blind.



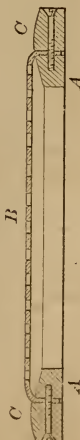
51133—L. Bronson—For Squaring Ends of Shafting.

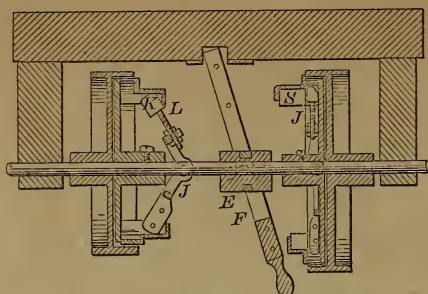
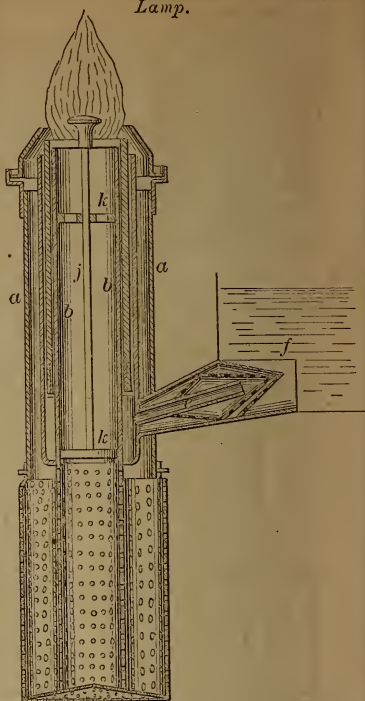
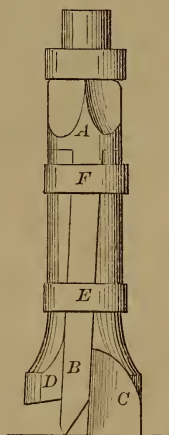
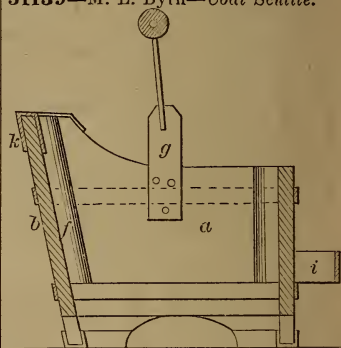
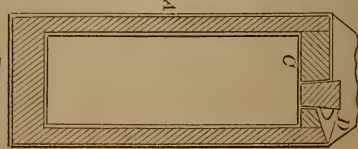
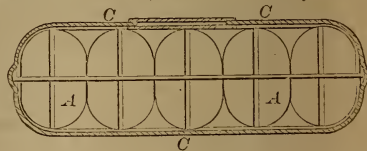


51129—D. Bickford—Hydraulic Elevator.

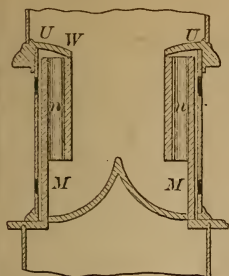


51132—W. Bramhill—Chair.

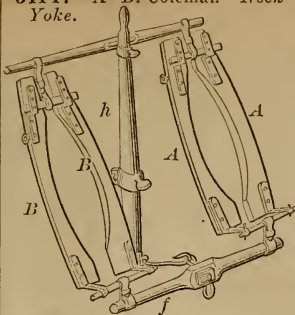


51134—W. H. Brown—*Friction Clutch.*51135—P. Budenback—*Locomotive Head Lamp.*51136—J. H. Bump—*Well Tube and Pump.*51137—E. Burgess—*Suspenders.*51138—J. Burns—*Oil Well Drill.*51139—M. L. Byrn—*Coal Scuttle.*51141—C. W. Cahoon—*Bottle.*51140—T. Byrne—*Cotton Bale Raft.*51142—
C. W. Cahoon—
Bottle.

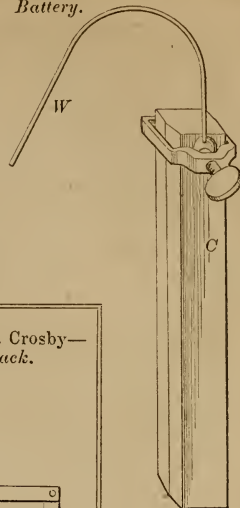
51143—L. W. Campbell—*Coal Store.*



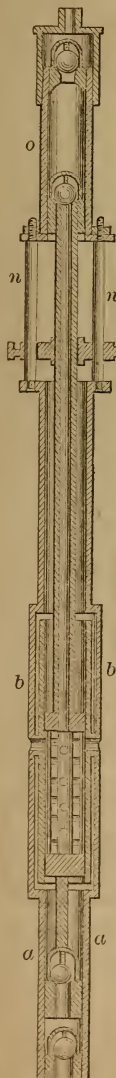
51147—A. B. Coleman—*Neck Yoke.*



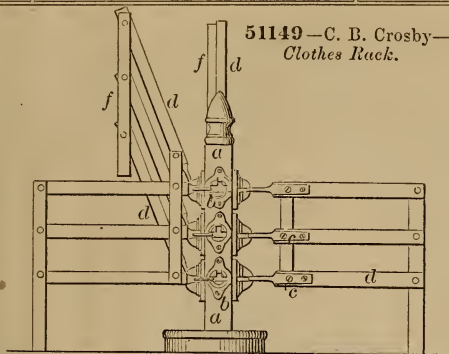
51144—C. T. Chester—*Carbon Battery.*



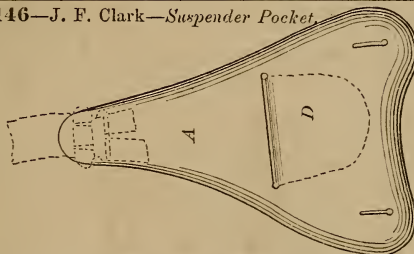
51148—J. J. G. Collins—*Deep Well Pump.*



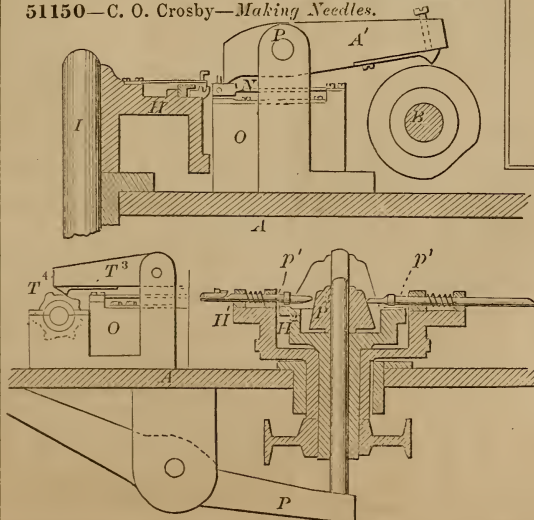
51149—C. B. Crosby—*Clothes Rack.*



51146—J. F. Clark—*Suspender Pocket.*



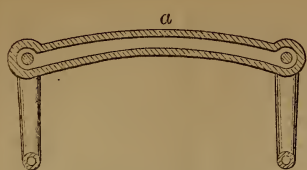
51150—C. O. Crosby—*Making Needles.*



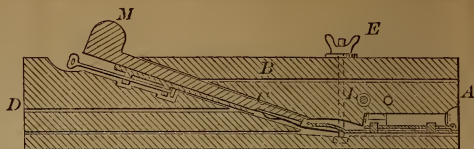
51145—J. Christian—*Pump Filter.*



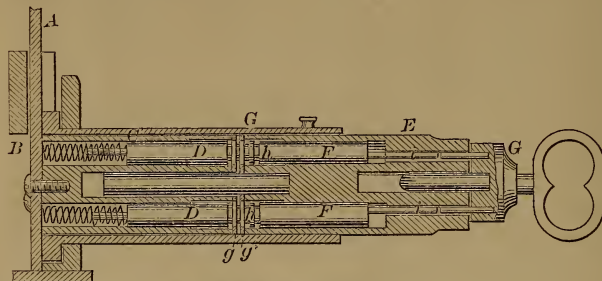
51151—E. Day—Bridle Bit.



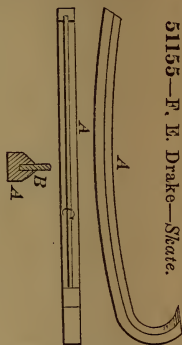
51153—J. Dempsey—Splint Plane.



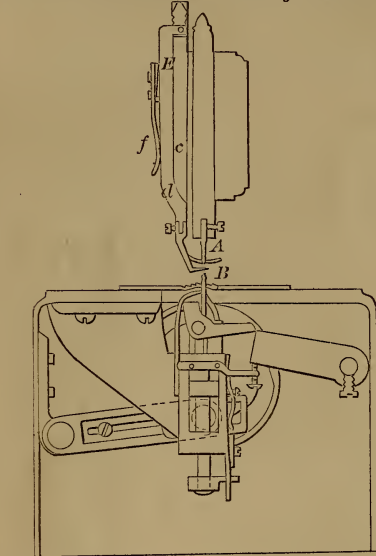
51152—A. E. Deitz—Lock



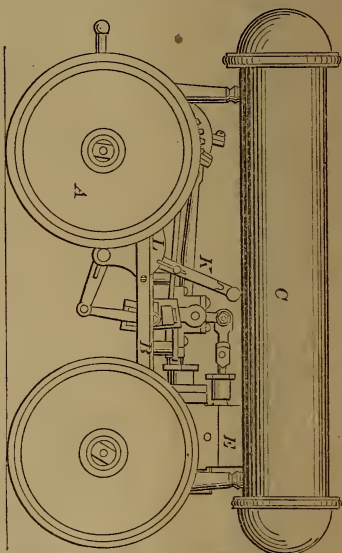
51155—F. E. Drake—Skate.



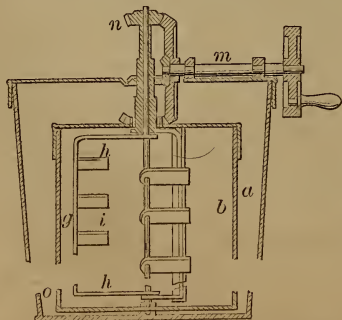
51157—H. Dunham, Jr.—Sewing Machine.



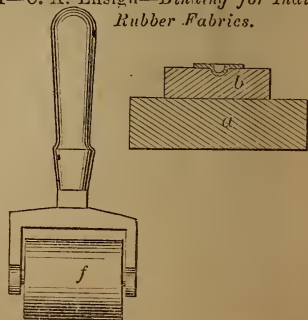
51158—L. H. Dwyer—Air Brake for Cars



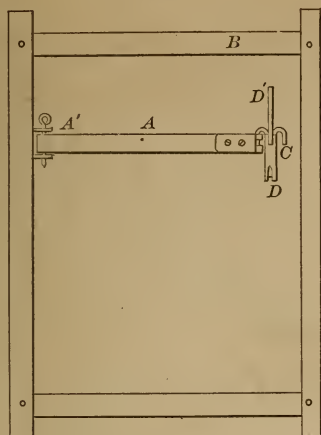
51160—A. W. Edwards—Ice Cream Freezer.



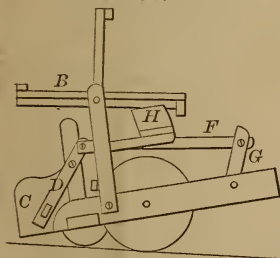
51161—C. A. Ensign—Binding for India Rubber Fabrics.



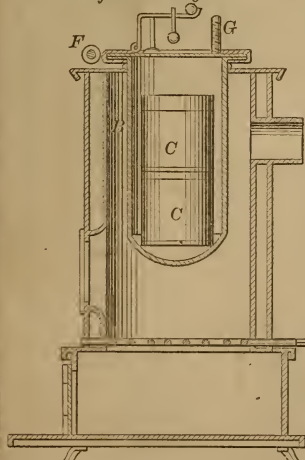
51162—C. D. Everett—*Delivering Mail from Cars.*



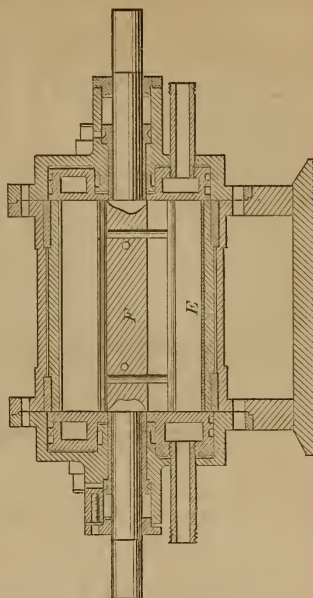
51163—G. C. Fanckboner—*Harvester.*



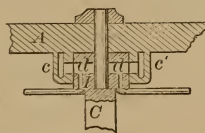
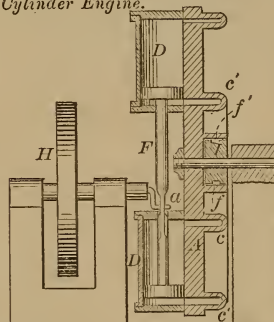
51164—S. S. Fitch—*Apparatus for Cooking.*



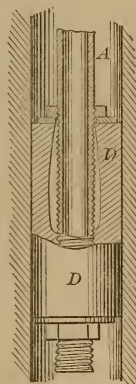
51165—M. Fletcher—*Steam Engine.*



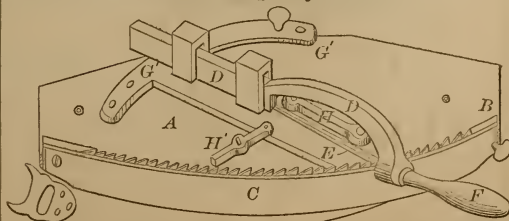
51166—J. S. Foster—*Revolving Cylinder Engine.*

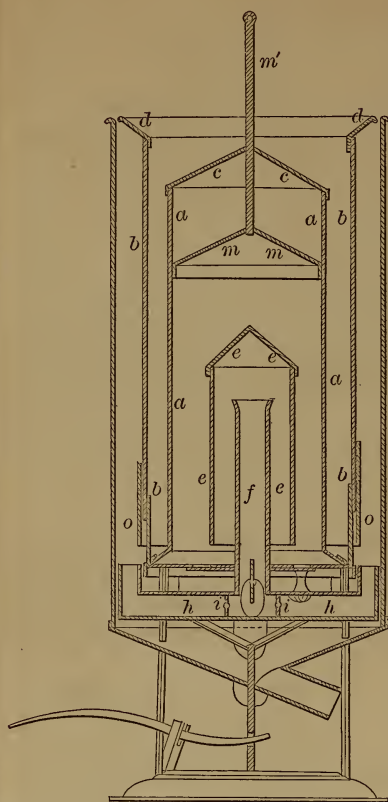
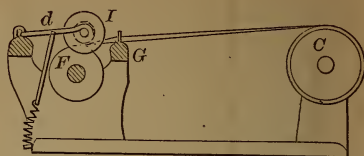
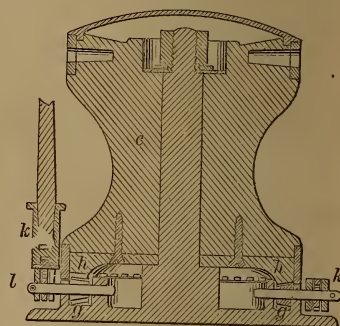
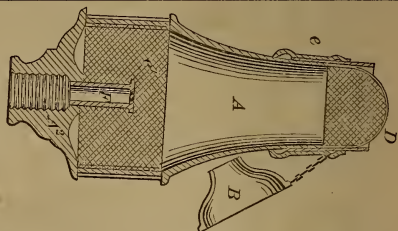
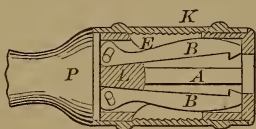
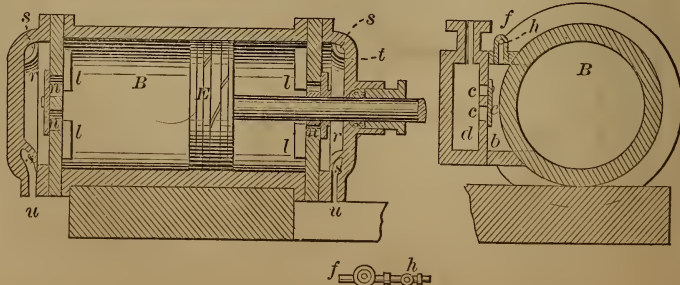


51167—Fowler & Morgan—*Deep Well Packing.*

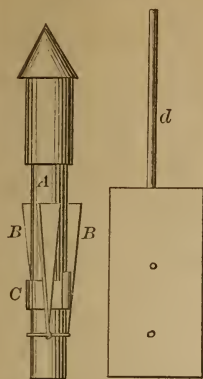


51168—C. P. Frazer—*Sharpening Saws.*

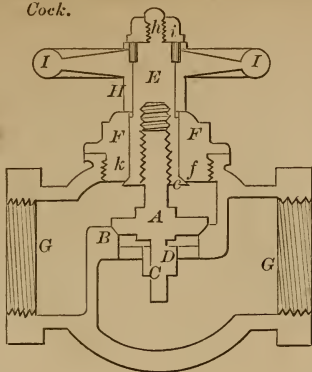


51169—J. Gecman—*Malt Kiln.*51171—I. Gibbs—*Winding Yarn for Weaving Tape.*51172—D. W. Gitchell—*Hat.*51174—W. D. Grinshaw—*Capstan.*51173—D. W. Goodell—*Bit Stock.*51170—A. Geiss—*Gas Burner.*51175—W. H. Guild—*Pneumatic Pump.*

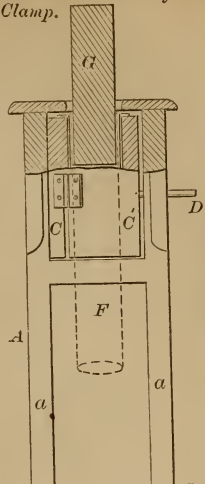
51176—J. W. Hadfield—*Sky Rocket.*



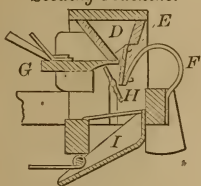
51177—Hallowell & Barker—*Steam Cock.*



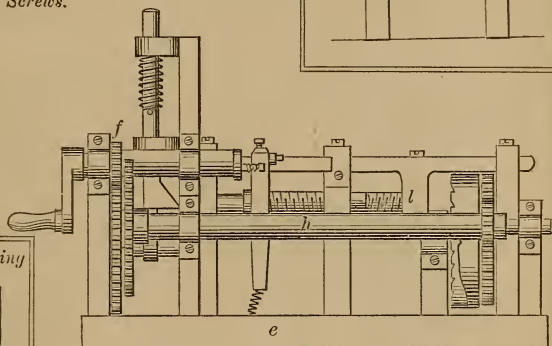
51182—H. W. Holly—*Clamp.*



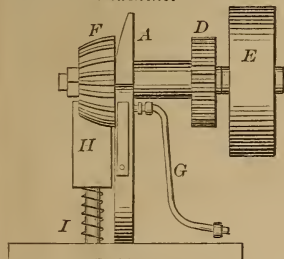
51178—W. H. Hartman—*Seeding Machine.*



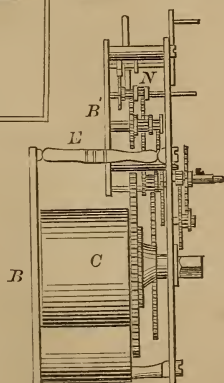
51179—H. A. Harvey—*Threading Screws.*



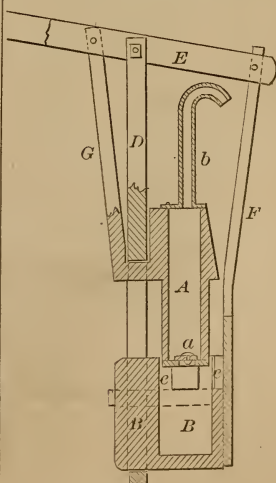
51180—C. H. Helms—*Burnishing Machine.*



51184—L. Hubbell—*Marine Clock.*

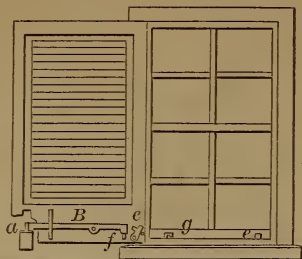
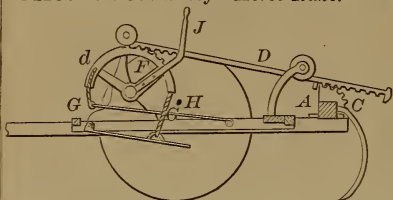
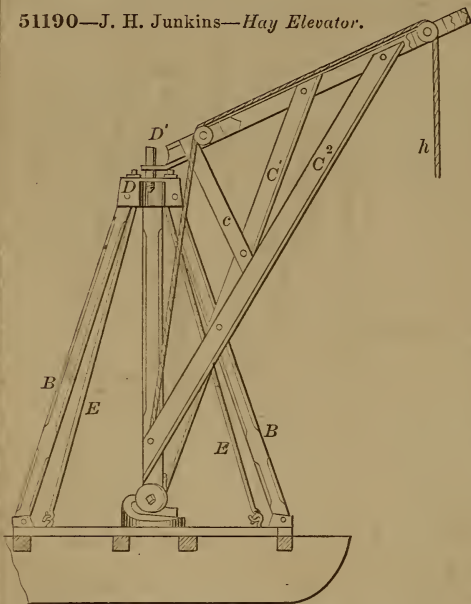
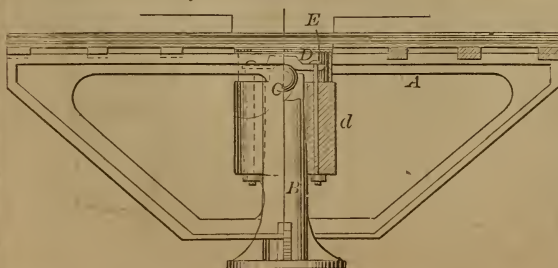
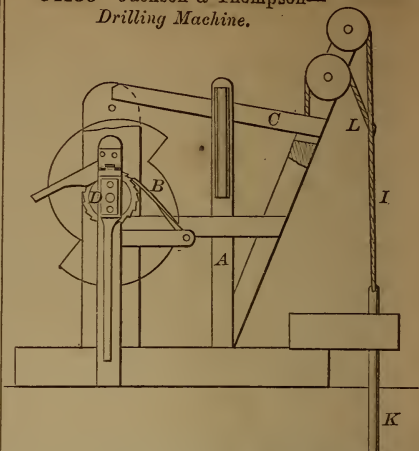
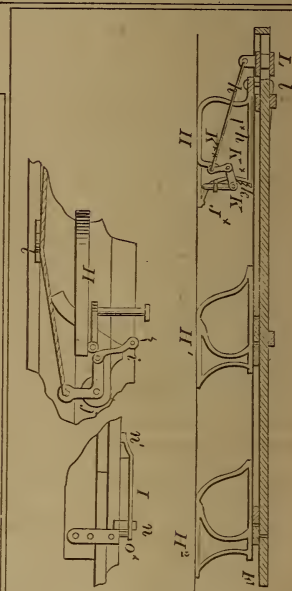
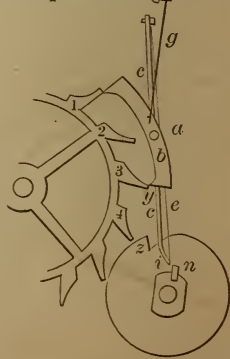


51183—J. G. Hovey—*Pump.*

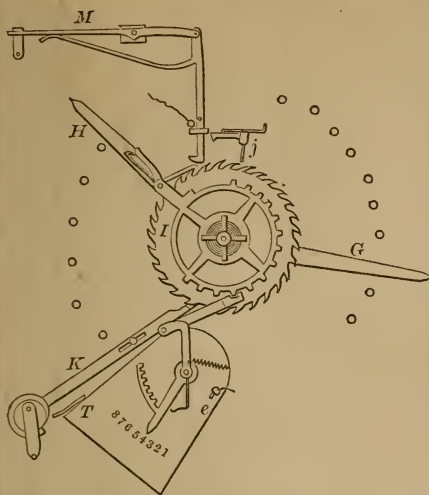


51185—E. A. Hunt—*Washing Machine.*

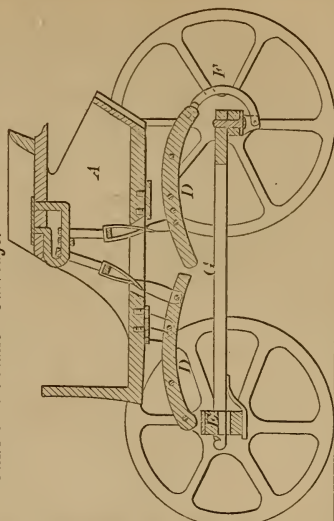


51186—B. S. Huntington—*Shutter Latch.*51187—D. G. Hussey—*Horse Rake.*51190—J. H. Junkins—*Hay Elevator.*51192—J. I. Kinsey—*Railroad Turntable.*51189—Jackson & Thompson—*Drilling Machine.*51188—D. G. Hussey—*Child's Sted.*51191—J. Karr—*Chronometer Escapement.*

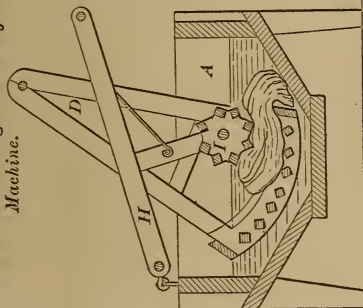
51193—C. Kirchhof—Magnetic Telegraph.



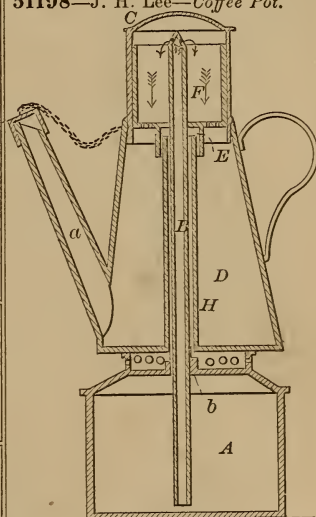
51196—E. Lane—Carriage.



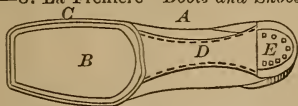
51197—G. W. Largo—Washing Machine.



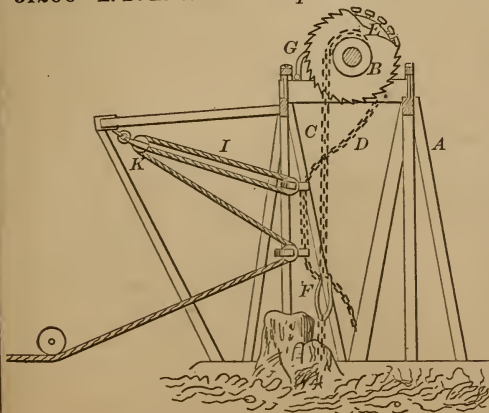
51198—J. H. Lee—Coffee Pot.



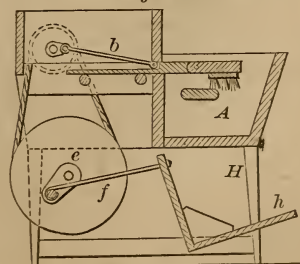
51195—O. La Frenière—Boots and Shoes.

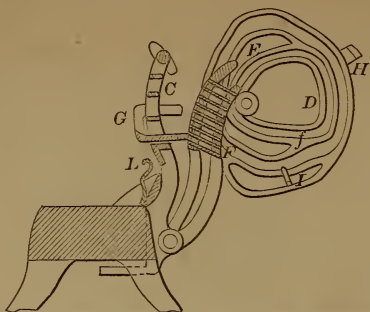
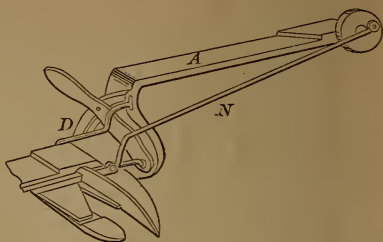
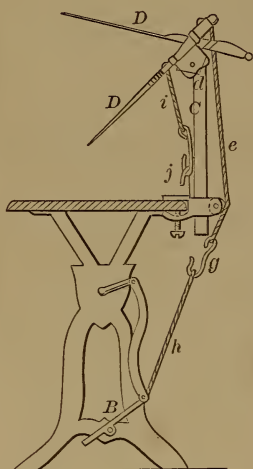
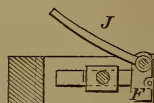
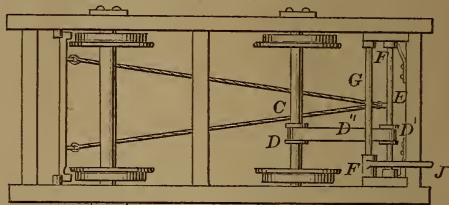
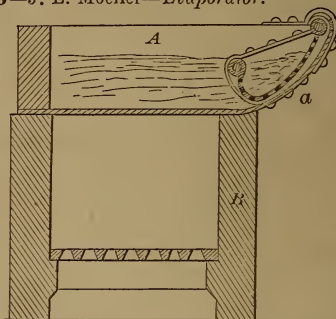
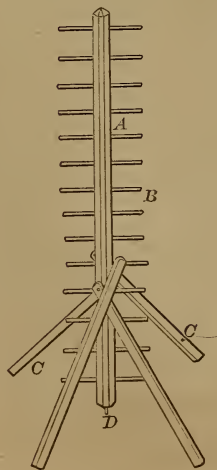
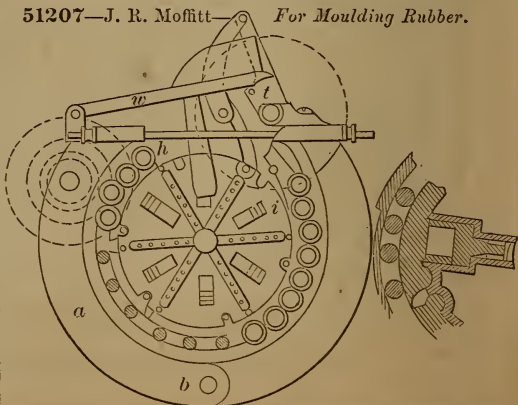


51200—L. D. Livermore—Stump Extractor.

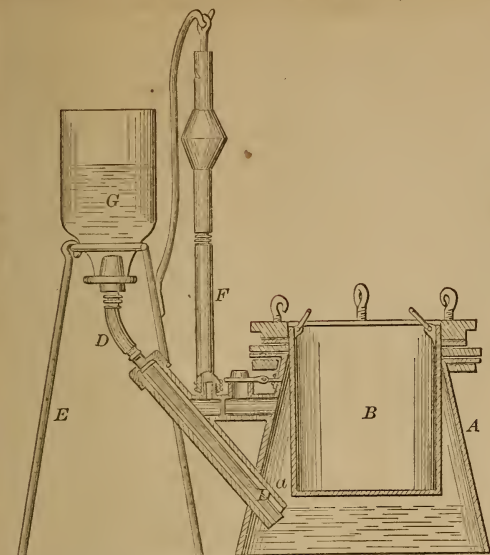


51199—D. R. & J. T. Leighton—Washing Machine.



51201—H. Locke—*Stoning Raisins.*51203—A. J. Manny—*Harvester.*51202—T. R. Lovett—*Sewing Machine Fan.*51204—S. McCambridge—*Car Brake.*51206—J. E. Moeller—*Evaporator.*51205—D. McMaster—*Fruit Ladder.*51207—J. R. Moffitt—*For Moulding Rubber.*

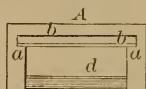
51208—A. F. W. Neynaber—*Steam Cooking.*



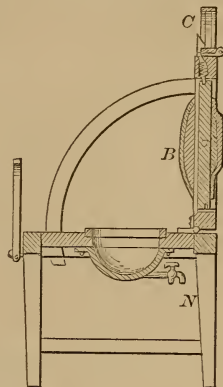
51211—J. W. Prentiss—*Harvester.*



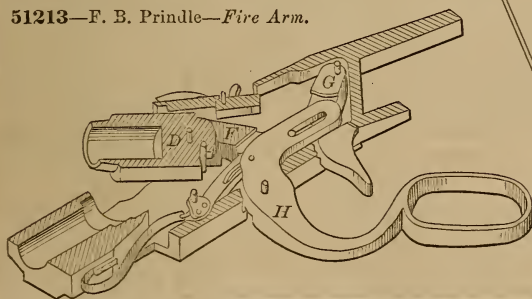
51210—J. Peabody—*Buckle.*



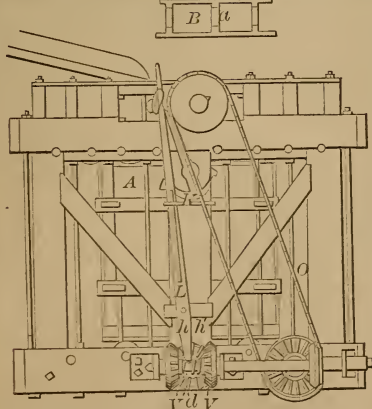
51215—S. Rainey—*Nursery Chair.*



51213—F. B. Prindle—*Fire Arm.*



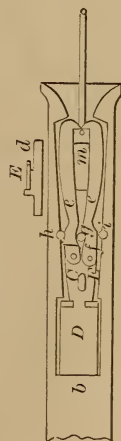
51212—J. Price, Jr.—*Baling Machine.*



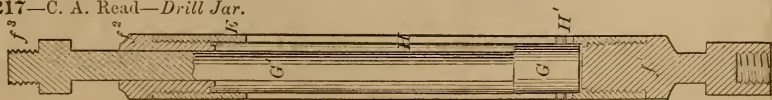
51214—F. Quant—*For Baling Cotton.*

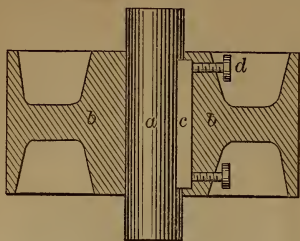
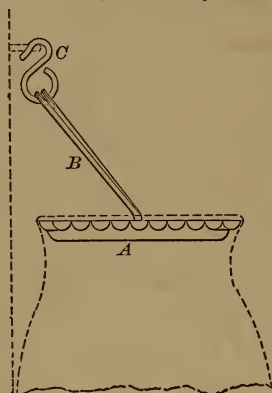
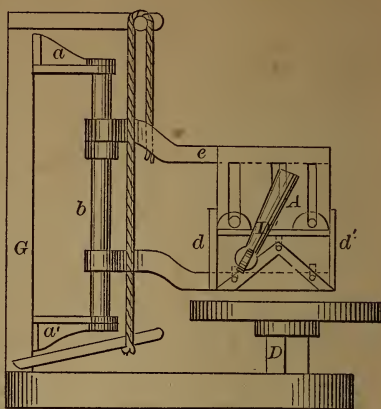
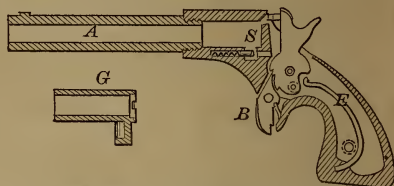
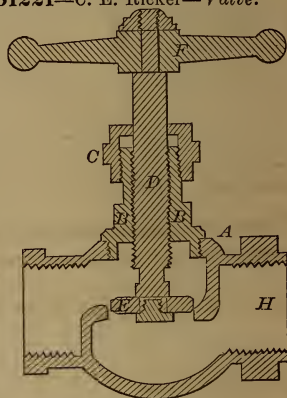
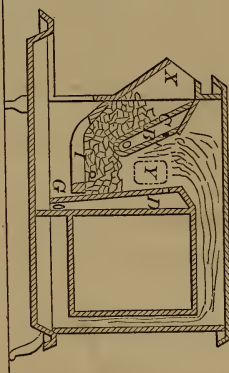
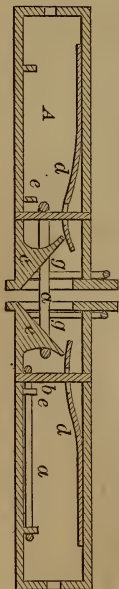
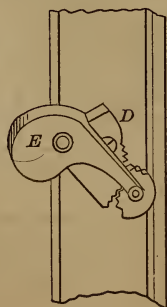
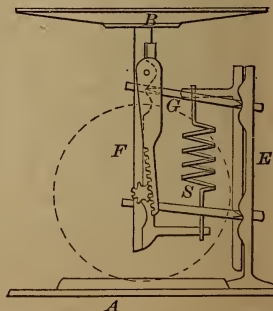


51209—A. G. Page—*Car Coupling.*

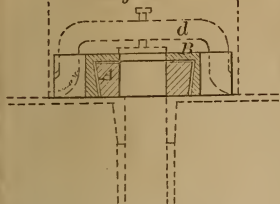


51217—C. A. Read—*Drill Jar.*

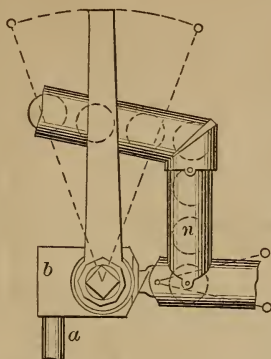


51218—J. W. Reid—*Securing Pulleys.*51220—E. Reynolds—*Bag Holder.*51219—J. Reilly—*For Dressing Tiles.*51225—F. Schopp—*Fire Arm.*51221—C. E. Rieker—*Valve.*51224—J. J. Savage—*Cook Stove.*51223—A. Roll—*Car Coupling.*51222—A. Ridell—*Sash Lock.*51226—R. Shaler—*Balance.*

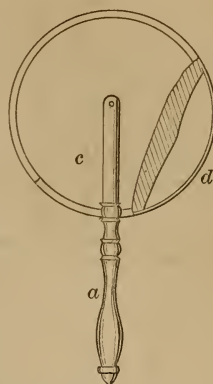
51227—N. Shoemaker—
Grinding Mill.



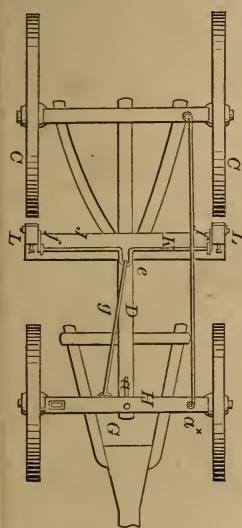
51229—F. G. Smith—
Steam Gun.



51228—B. M. Smith—
Fan.



51232—C. A. Smyth—Self-Acting Brake.



51233—G. K. Snow—Paper Collar Machine.

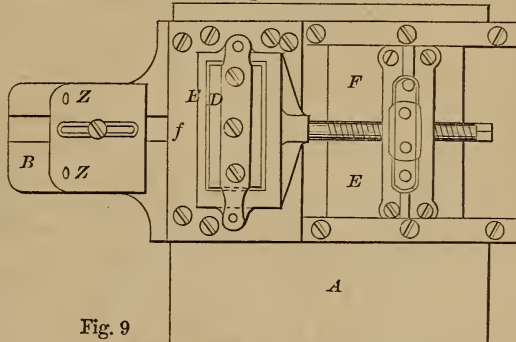
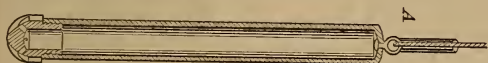
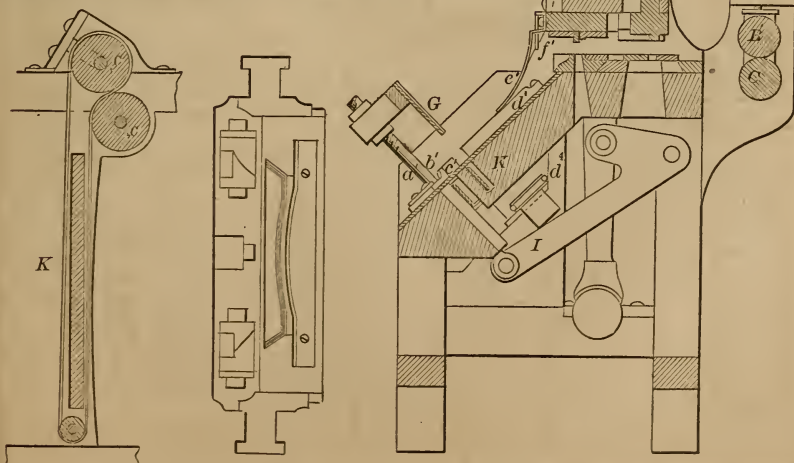


Fig. 9

51230—Smith & Henis—Rock Drill.



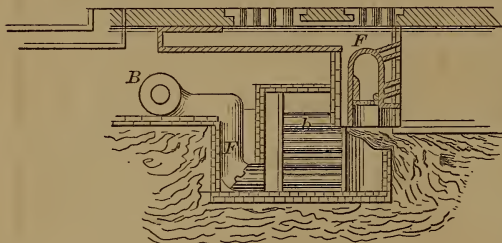
51234—G. K. Snow—Paper Collar Machine.



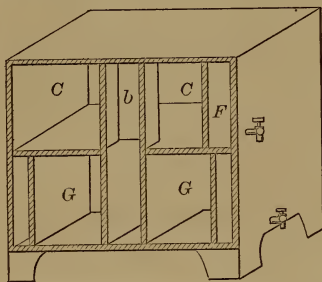
51235—G. K. Snow—Paper Collar Die.



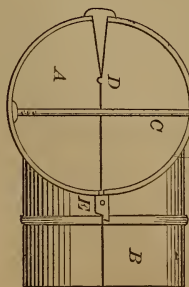
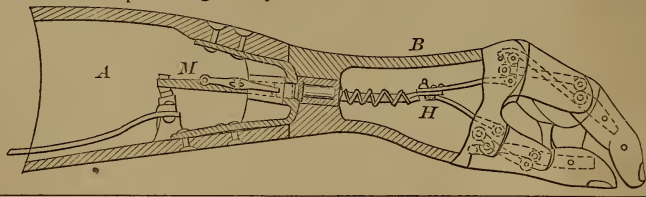
51236—D. E. Some—Ventilating Apparatus.



51237—D. E. Some—Cooling Air.

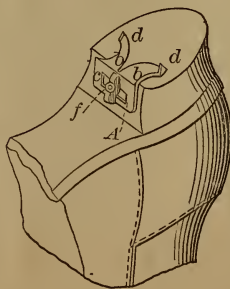


51238—E. Spellerberg—Artificial Arm.

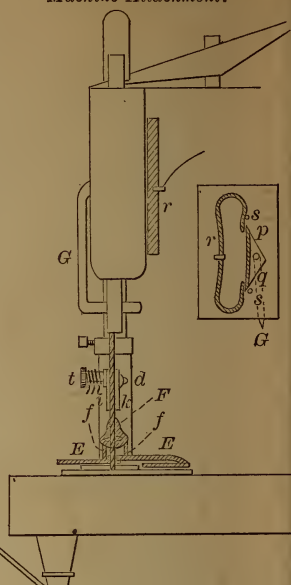


51240—O. W. Stow—Stove Pipe Elbow.

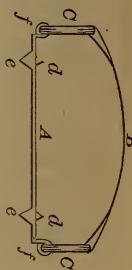
51241—T. Symonds—Heel Calk.



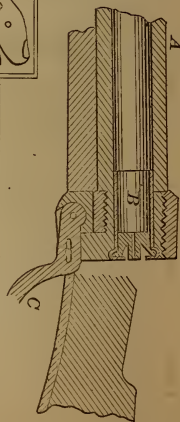
51239—M. W. Stevens—Sewing Machine Attachment.



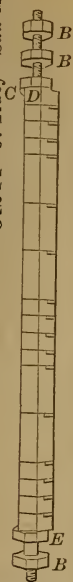
51242—T. Symonds—Toe Calk.



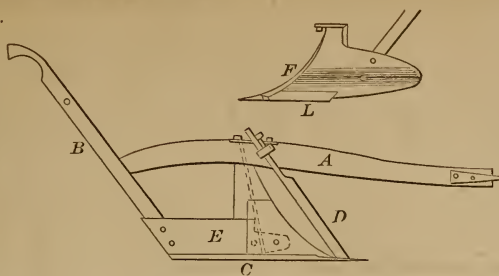
51243—W. Tibbals—Fire Arm.



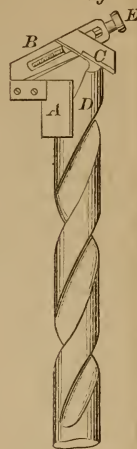
51244—J. Tracy—Saw Mill.



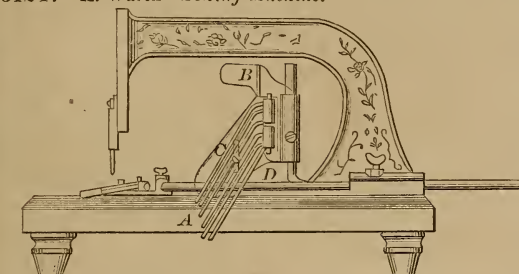
51245—J. Wallace—Plow.



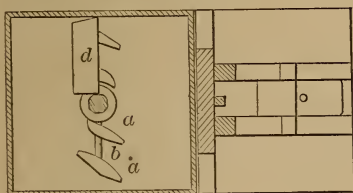
51248—
W. C. Wells—
Drill Gauge.



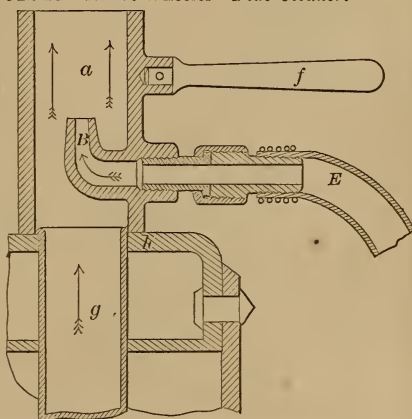
51247—A. Warth—Sewing Machine.



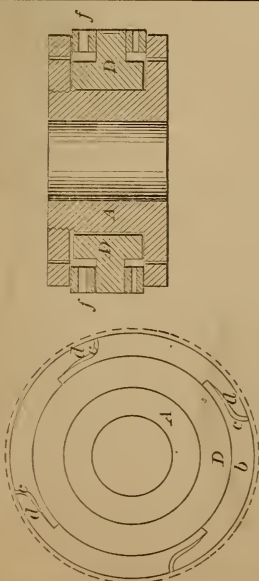
51246—D. T. Ward—Churn.



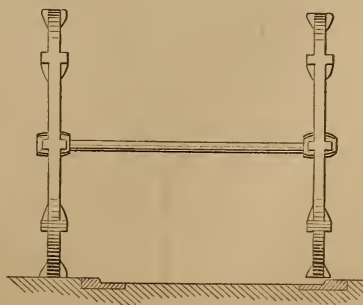
51249—N. W. Wheeler—Flue Cleaner.



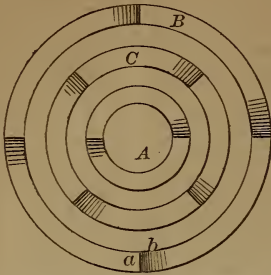
51250—J. Wheelock—Piston Packing.



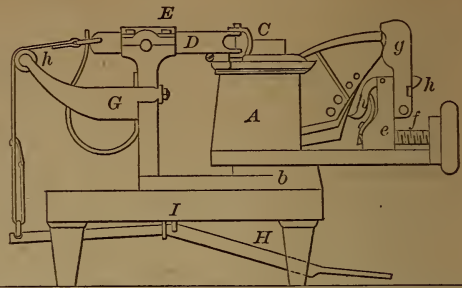
51251—E. S. Winchester—Carriage Wheel.



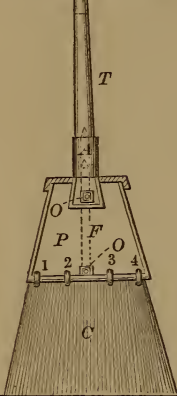
51252—A. Wyckoff—For Boring Tubes.



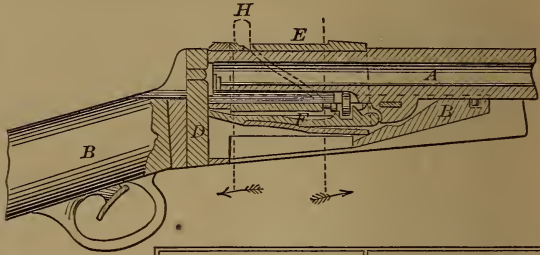
51254—J. H. Belser—Shaping Boot Heels.



51253—D. Young—Broom.



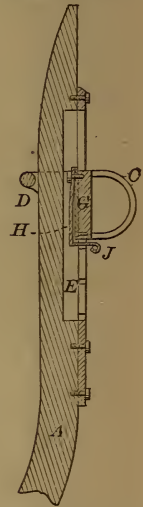
51258—J. Davis—Fire Arm.



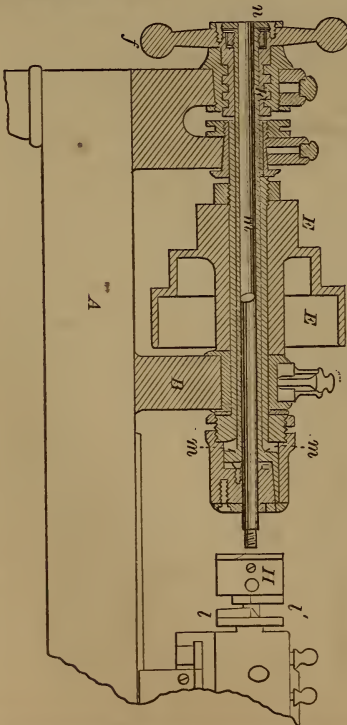
51255—A. C. Brocknridge—Tobacco Cartridge.



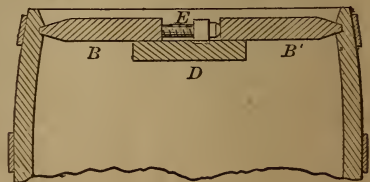
51256—J. E. Brown—Harness Hames



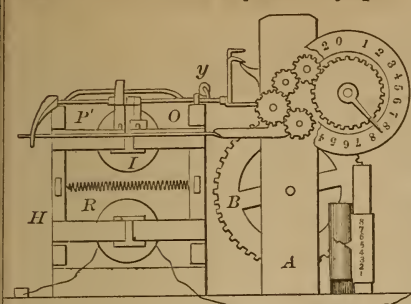
51257—J. R. Brown—Screw Cutting Machine.



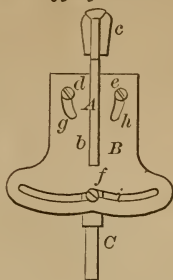
51260—G. W. Gilbert—Barrel Head.



51261—C. Kirchhof—*Magnetic Telegraph.*



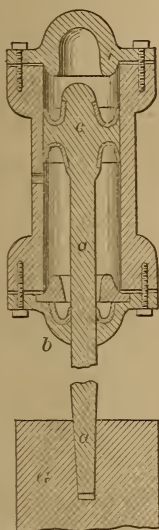
51262—W. R. Landfear—*Pegging Jack.*



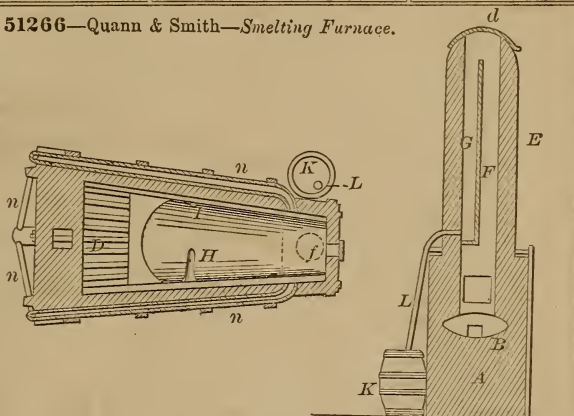
51263
D. R. Pratt—*Spike.*



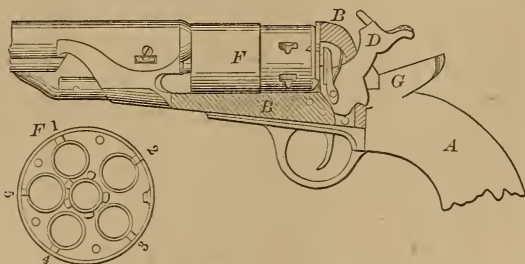
51267—E. A. Raymond—*Forging Apparatus.*



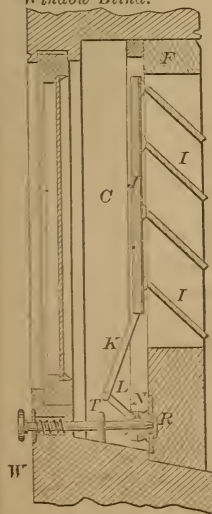
51266—Quann & Smith—*Smelting Furnace.*



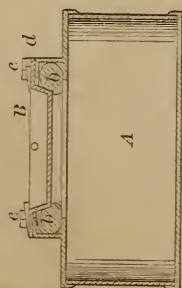
51269—J. Rider—*Fire Arm.*



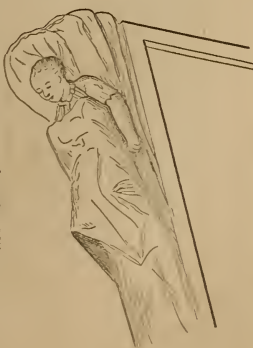
51268—J. C. Reed—*Window Blind.*



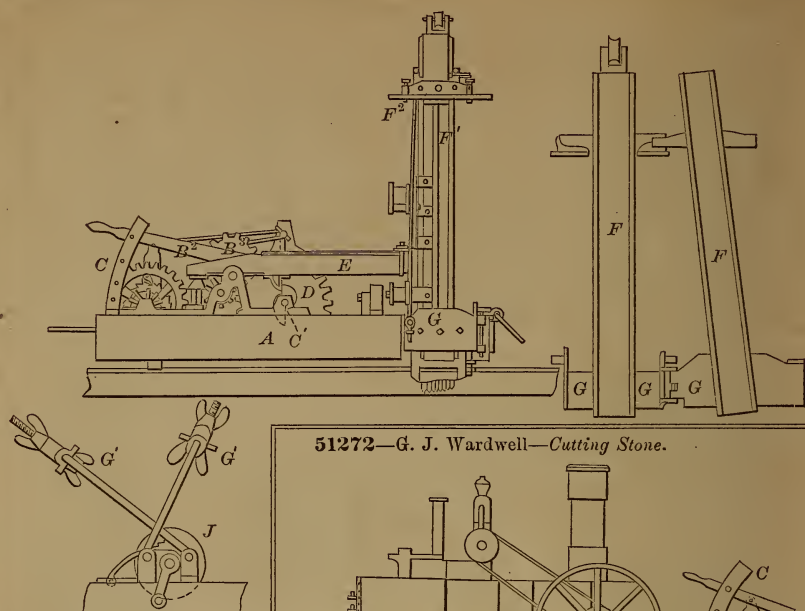
51264—P. H. Niles—*Preserve Can.*



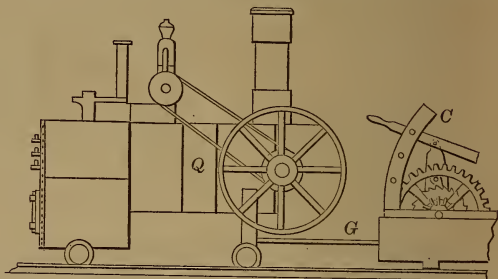
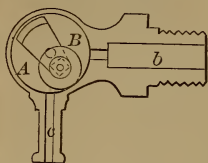
51270—M. L. Thompson—*Bed Clothes Retainer.*



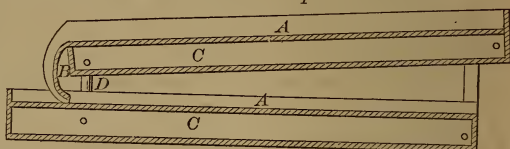
51271—G. J. Wardwell—Stone Cutting.



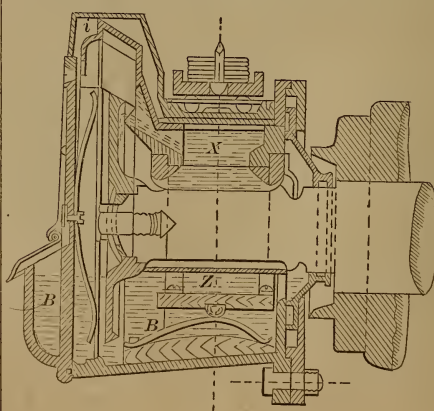
51272—G. J. Wardwell—Cutting Stone.

51274—C. T. Woodman—
Gauge Cock.

51275—C. P. Zimmerman—Liquid Cooler.

51273—
G. J. Wardwell—
Stone Channelling.

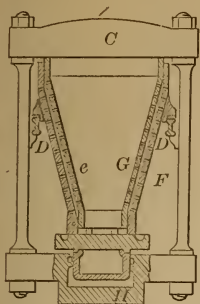
51276—J. F. A. Aerts—Lubricator.



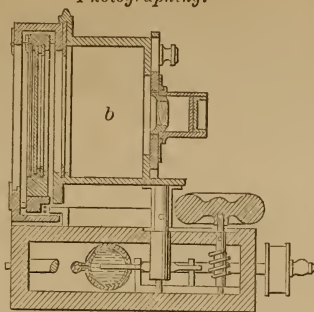
51277—L. P. R. De Massy—Filtering Press.



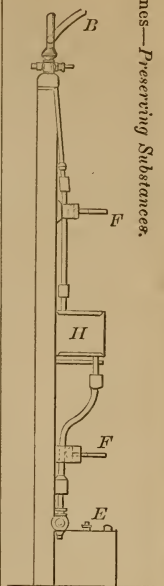
51278—J. Fortun—Attaching
Stakes to Cars.



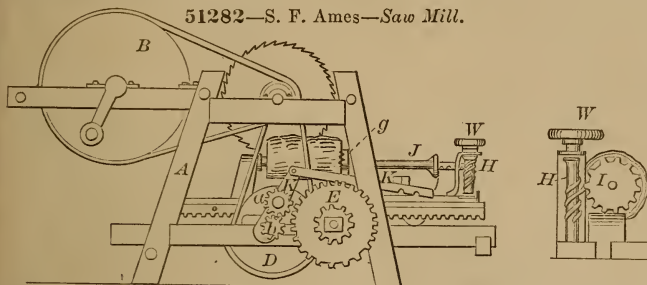
51279—Johnson & Harrison—
Photographing.



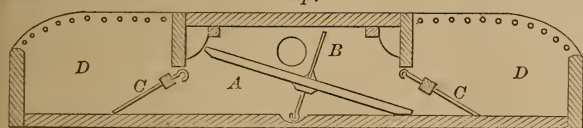
51280—
R. Jones—Preserving Substances.



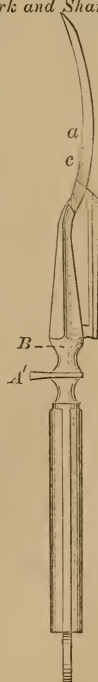
51282—S. F. Ames—Saw Mill.



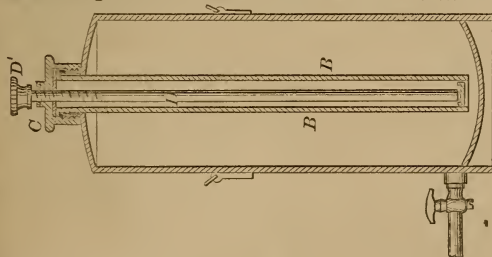
51283—L. J. Baker—Animal Trap.



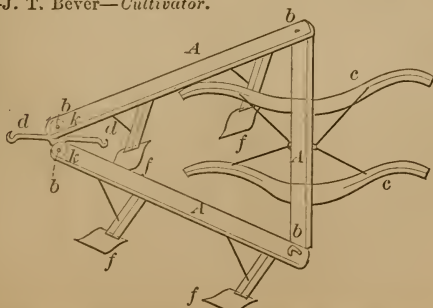
51285—F. C. Beach—
Fork and Sharpener.

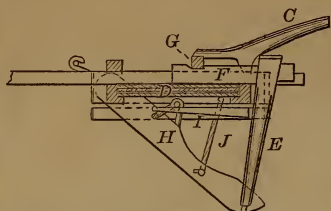
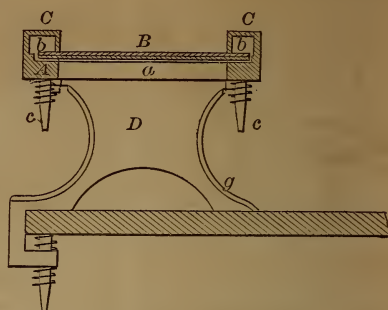
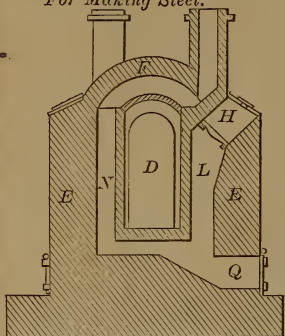
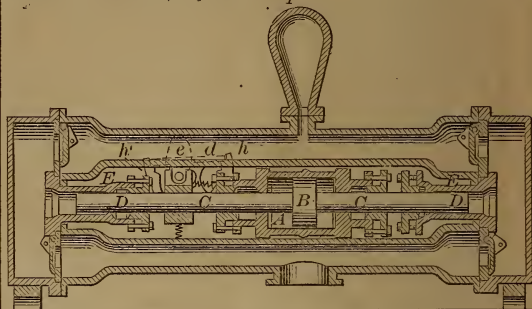
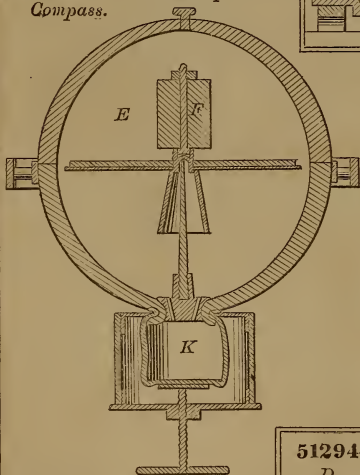
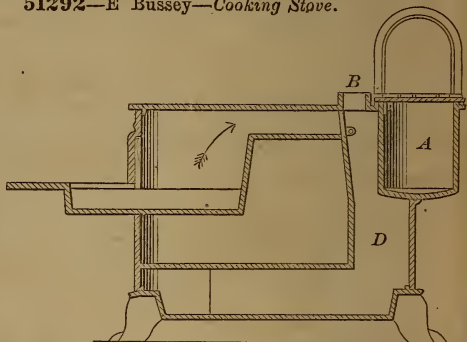
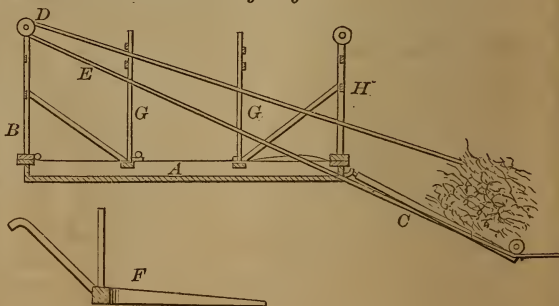


51284—Baragwanath & Van Wisker—Fire Annihilator.



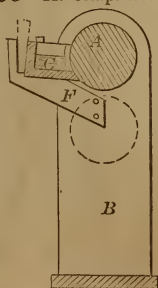
51286—J. T. Bever—Cultivator.



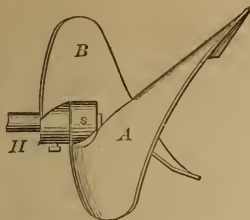
51287—S. Bingham—*Horse Rake.*51288—W. & J. T. Bird—*Vegetable Cutter.*51289—T. S. Blair—*Furnace For Making Steel.*51291—F. Brown—*Steam Pump.*51290—E. Blunt—*Liquid Compass.*51292—E. Bussey—*Cooking Stove.*51294—R. Cobb—*Loading Hay.*

51293—H. Chapman—

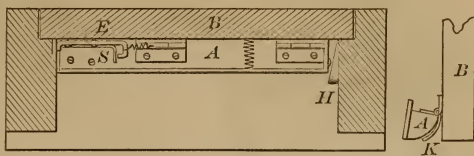
Paper Machinery.



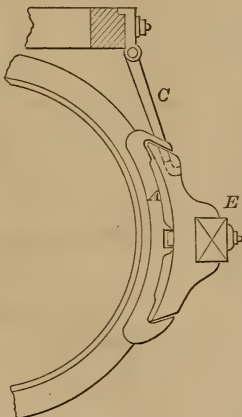
51295—L. H. Colburn—
Screw Propeller.



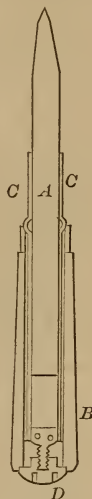
51296—G. H. Collins—*Weather Strip.*



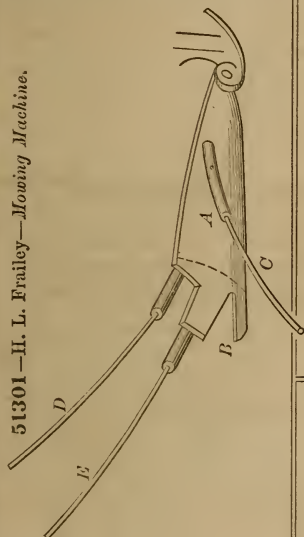
51298—B. De Vout—
Car Brake.



51297—S. A. Cummings—
Knife Blade Holder.



51301—H. L. Frailey—*Mowing Machine.*



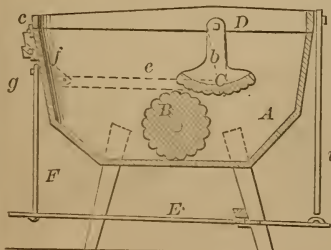
51299—A. M. Dexter—
Neck Tie.



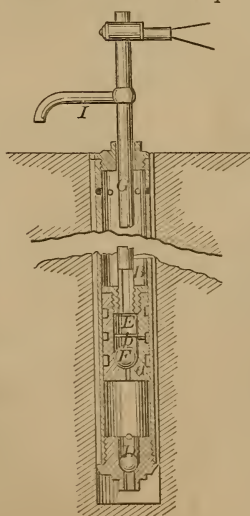
51303—W. T. Fry—*Flask.*



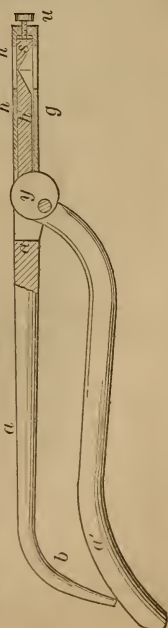
51304—A. C. Gallahue—*Washing Machine.*



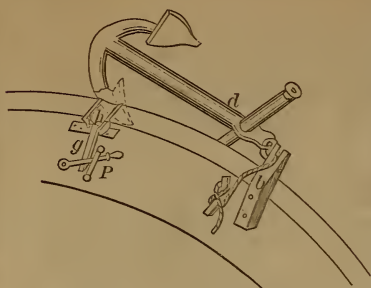
51302—B. Frazee—*Pump.*



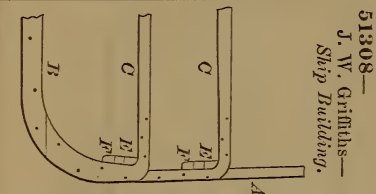
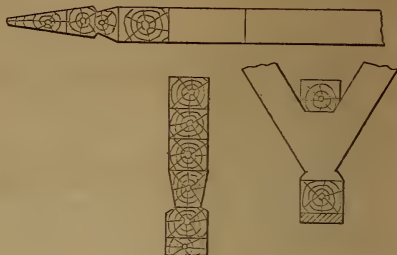
51300—C. Dreher—*Bolt Cutter.*



51305—G. Gibson—Anchor Tripper.

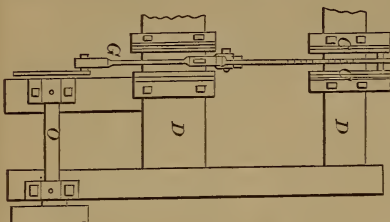


51307—J. W. Griffiths—Ship Building.

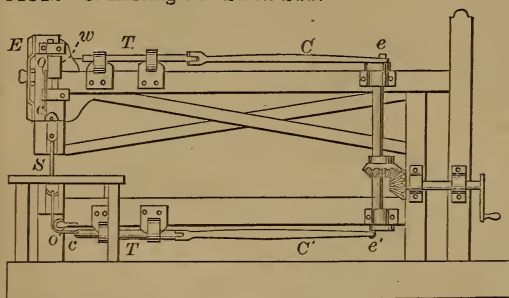


51308—J. W. Griffiths—Ship Building.

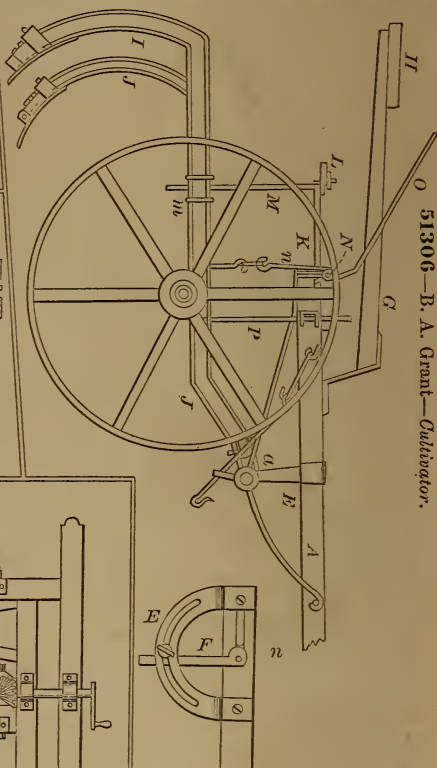
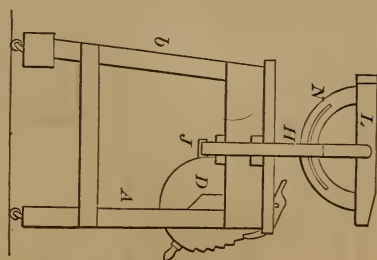
51310—P. Hamilton—Saw Mill.



51312—S. Harrington—Scroll Saw.

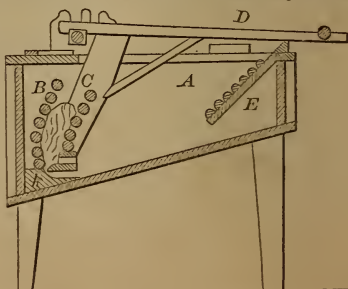


51311—J. W. Harper—Camera Stand.

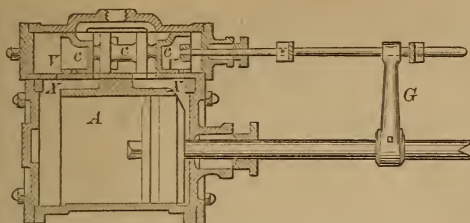


51306—B. A. Grant—Cultivator.

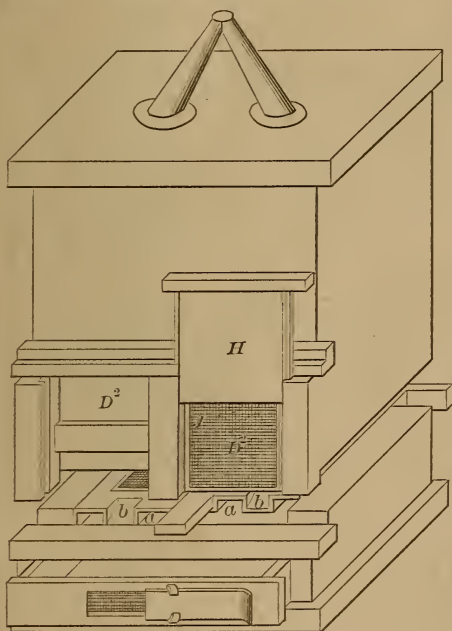
51313—G. M. Harris—Washing Machine.



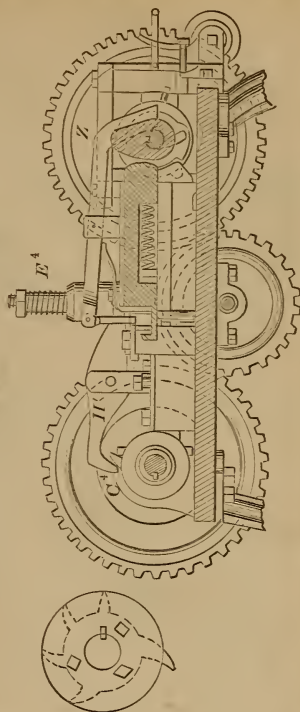
51314—W. M. Henderson—*Steam Valve.*



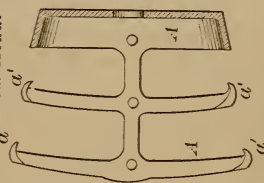
51315—D. Herman—*Beehive.*



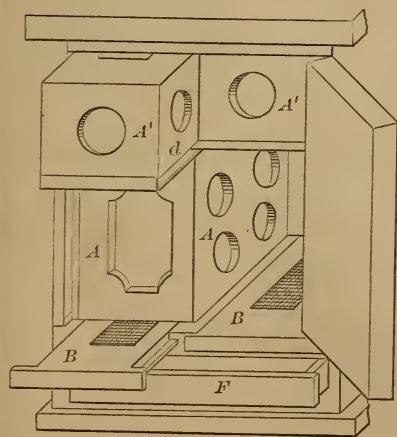
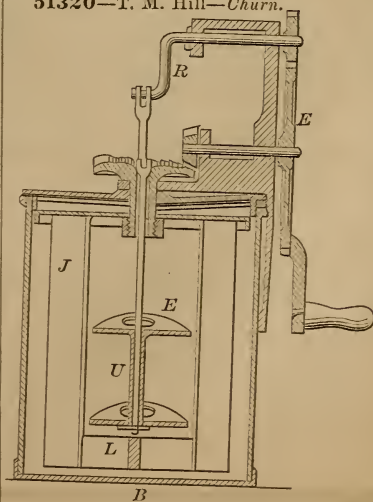
51316—Hubner & Hall—*Nut Machine.*

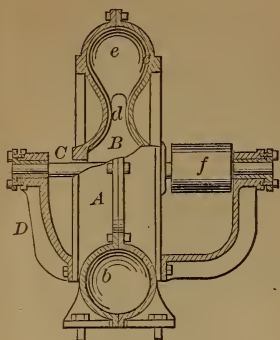
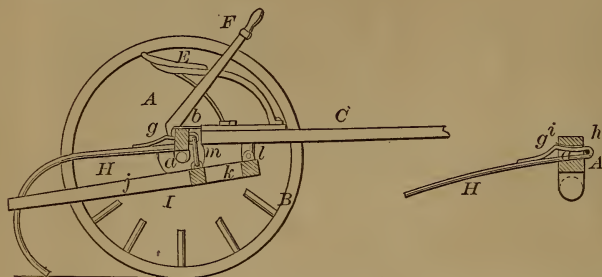
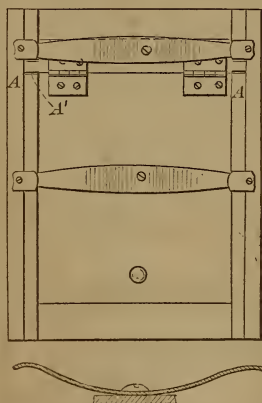
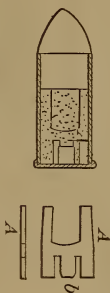


51318—G. W. Hoffman—*Broom Head.*



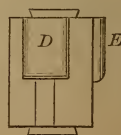
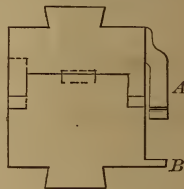
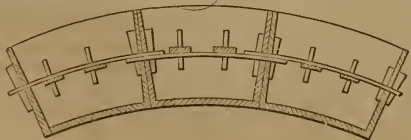
51320—T. M. Hill—*Churn.*



51321—W. Kendrick—*Fan Blower.*51326—J. Leffel—*Cane Stripper.*51322—W. King—*Horse Rake.*51323—W. J. Kuhns—*Photographic Printing Frame.*51324—T. T. S. Laidley—*Metallic Cartridge.*

51325—O. B. Latham—

Grappling Tongs for Oil Wells.

51327—S. P. Legg—*Pistol Frame Die.*51328—R. Lockwood—*Bridge.*

51329—Maltby & Pickering—Valve.

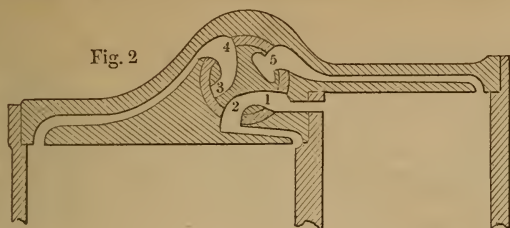


Fig. 2

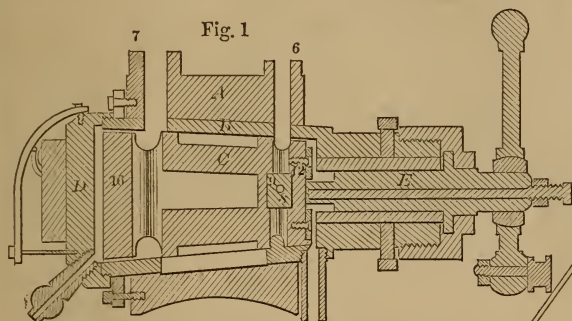


Fig. 1

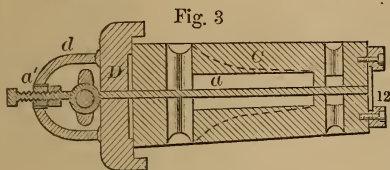
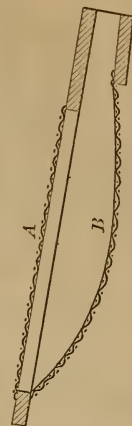
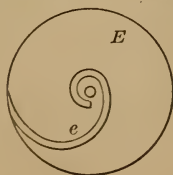
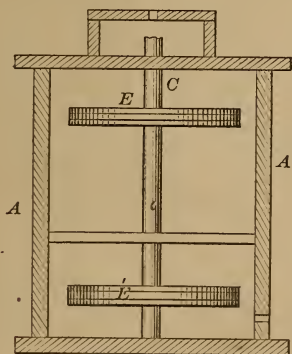


Fig. 3

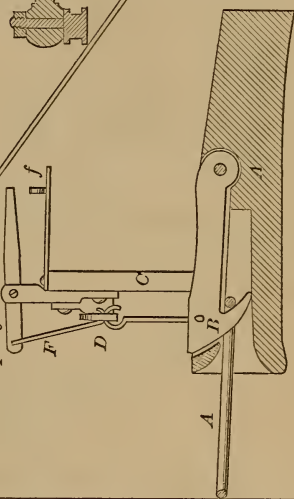
51334—J. H. Mather—Sieve.



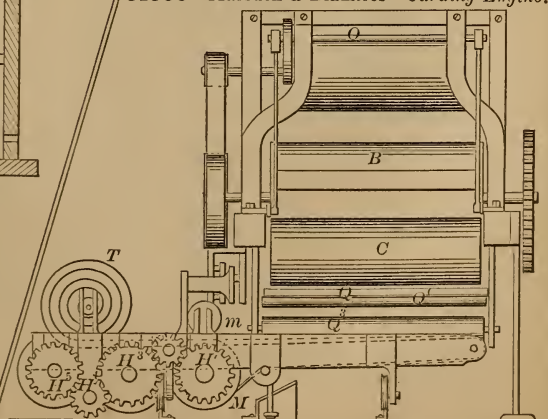
51335—E. Matteson—Rotary Engine.



51330—A. S. Markham—
Car Coupling.

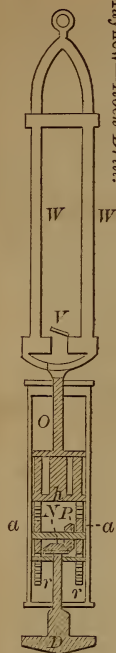


51333—Marsden & Blamires—Carding Engine.

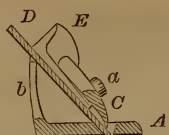


51336—

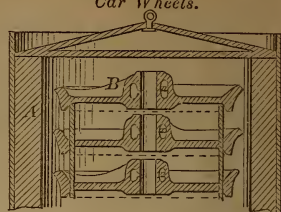
T. Mayhew—Rock Drill.



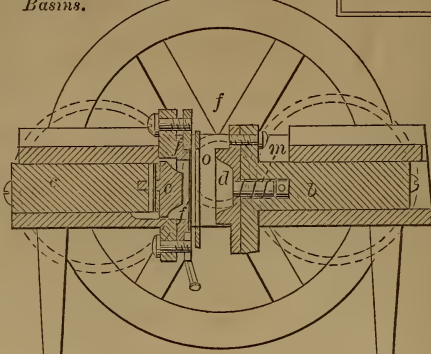
51339—Mowry & Bates—Spoke Shave.



51338—H. W. Moore—Annealing Car Wheels.



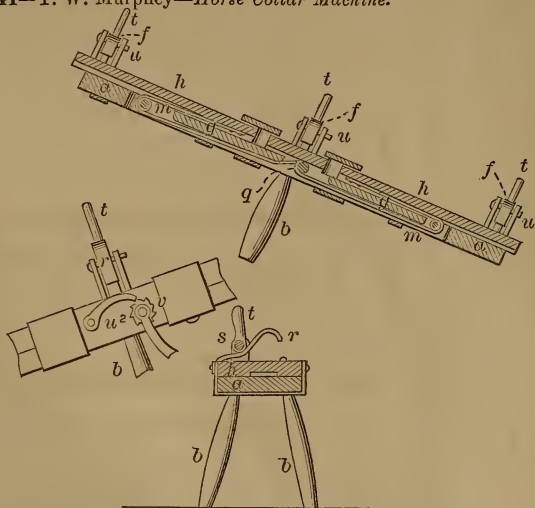
51342—G. Murray—Forming Metal Basins.



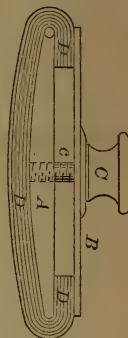
51340—W. Murdock—Spinning Bobbin.



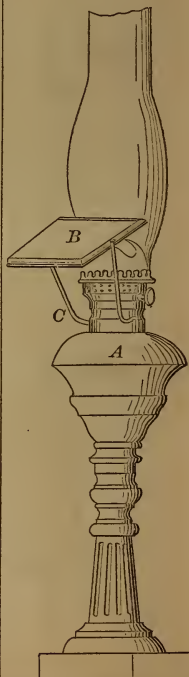
51341—T. W. Murphy—Horse Collar Machine.



51337—C. C. Moore—Blotter.



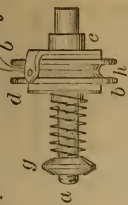
51344—J. Oeding—Lamp Reflector.



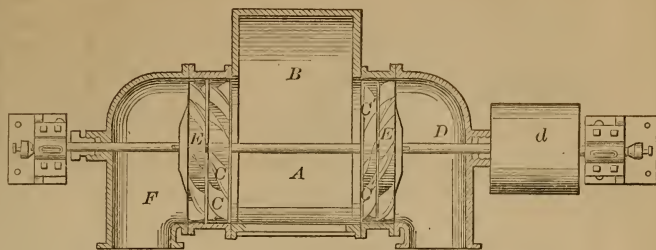
51345—Olsaver & Elliott—Enamelled Window Blind.



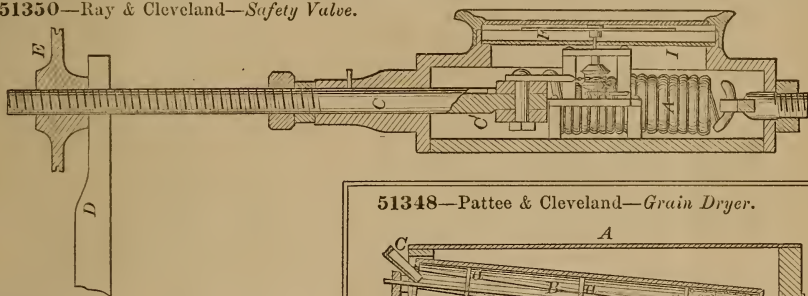
51346—J. L. Otis—Sewing Machine.



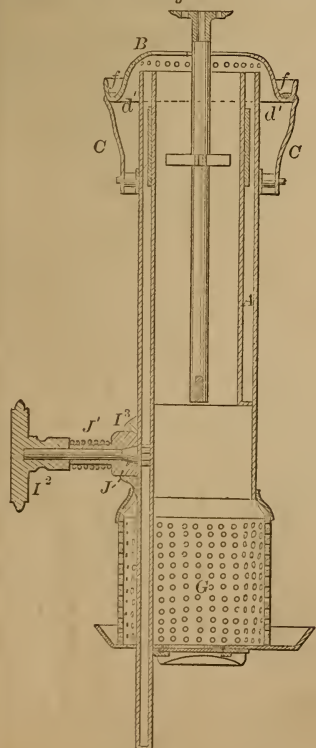
51347—O. Palmer—Rotary Pump.



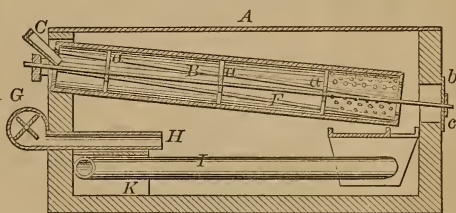
51350—Ray & Cleveland—Safety Valve.



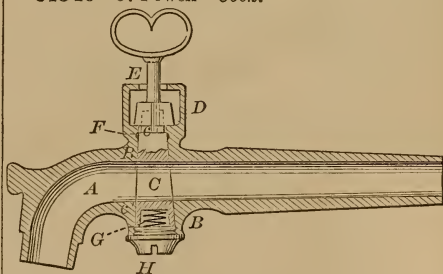
51351—Ray & Cleveland—Locomotive Head Light.



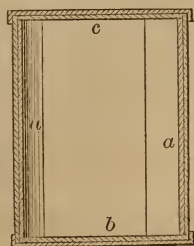
51348—Pattee & Cleveland—Grain Dryer.



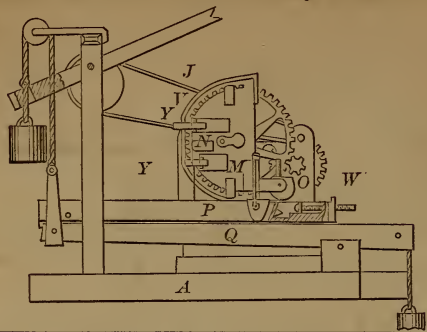
51349—J. Powell—Cock.



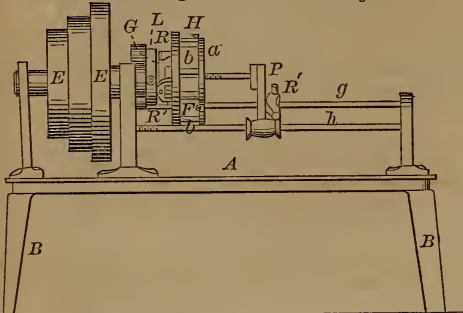
51352—W. C. Rentgen—Preserving Butter.



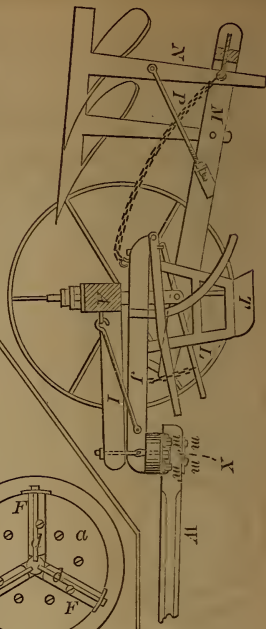
51353—T. D. Roberts—Wood Bending Machine.



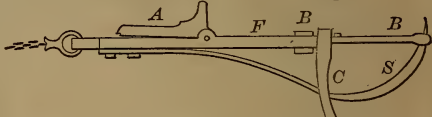
51355—J. F. Rodgers—Bolt Threading.



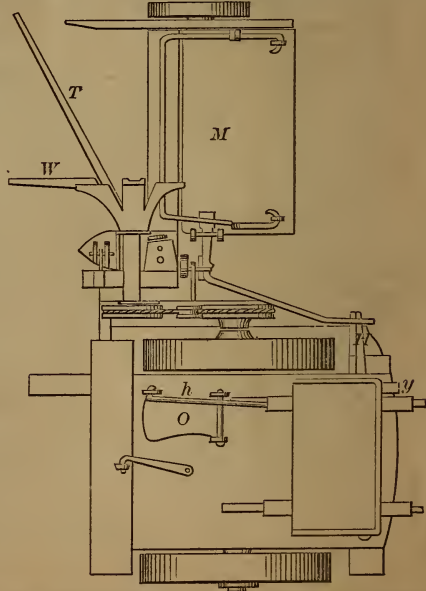
51358—M. Sattley—Gang Plow.



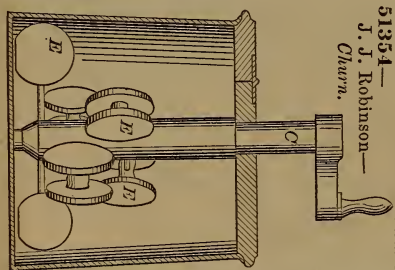
51356—B. F. Sanford—Animal Trap.



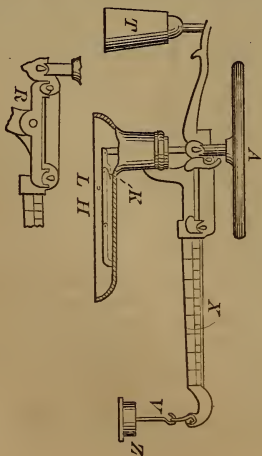
51359—J. F. Seiberling—Harvester.



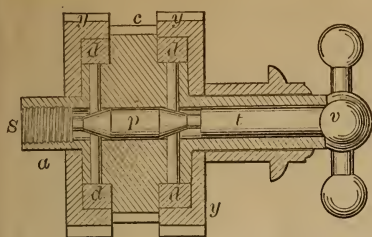
51354—J. J. Robinson—Churn.



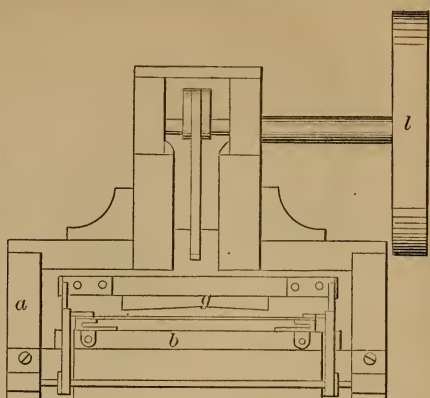
51357—J. Sangster—Scale.



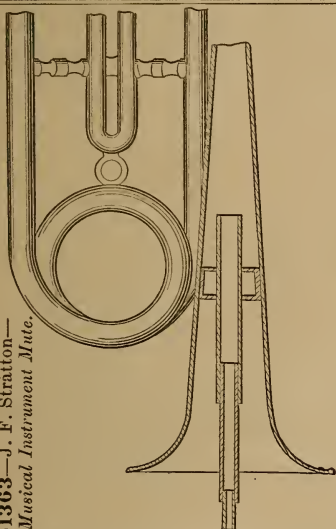
51360—H. K. Smith—Friction Clutch.



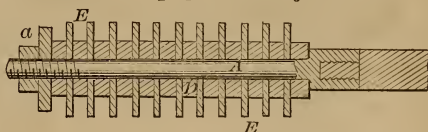
51361—D. M. Smyth—Paper Collar Machine.



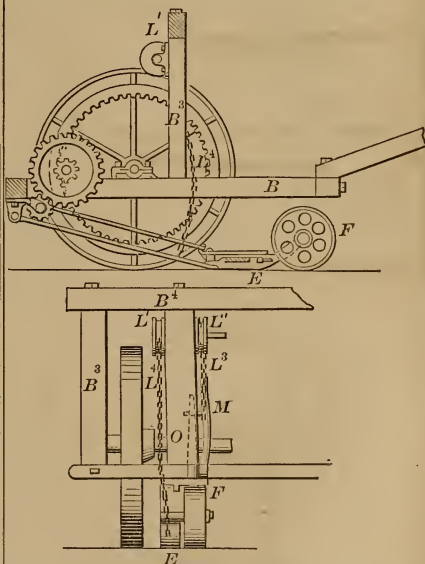
51363—J. F. Stratton—
Musical Instrument Mute.



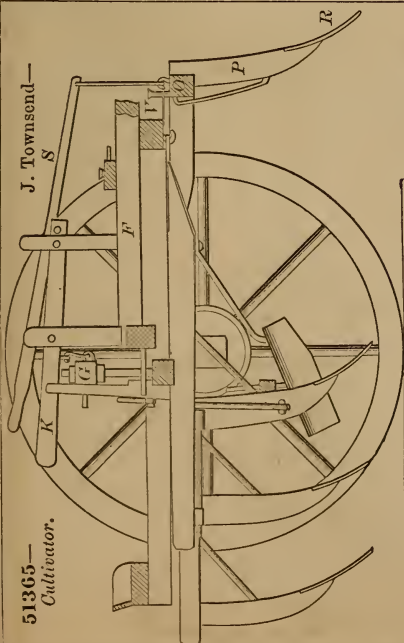
51362—J. M. Spiegle—Cleaning Boiler Flues.



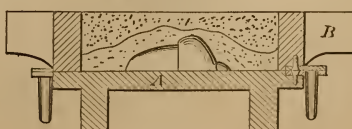
51364—J. B. Tinker—Mowing Machine.



51365—
Cultivator.



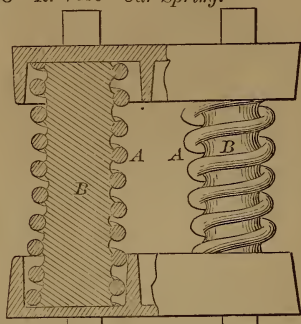
51366—Truesdale & Sennett—Moulder's
Match Plate.



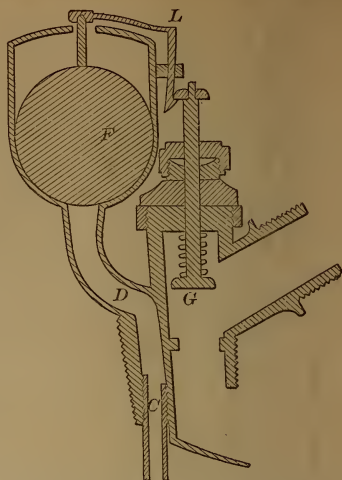
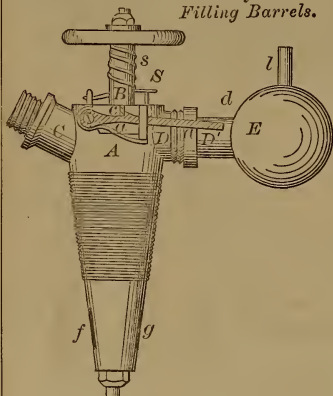
51367—Tyler & Tattershall—Buckle.



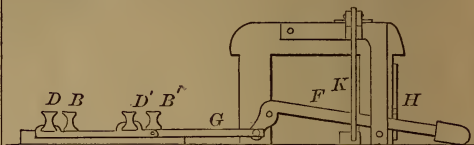
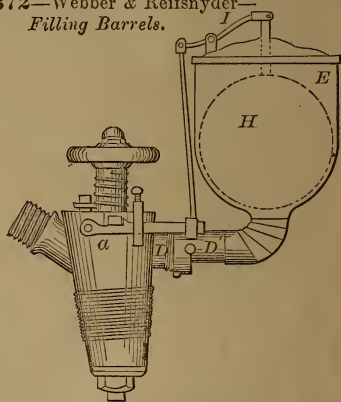
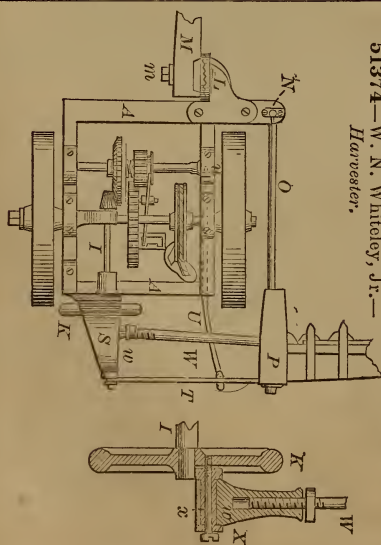
51368—R. Vose—Car Spring.



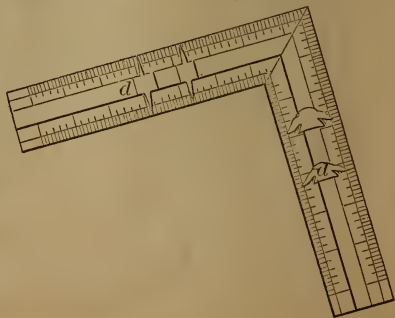
51370—Webber & Reifsnyder—Filling Barrels.

51371—Webber & Reifsnyder—
Filling Barrels.

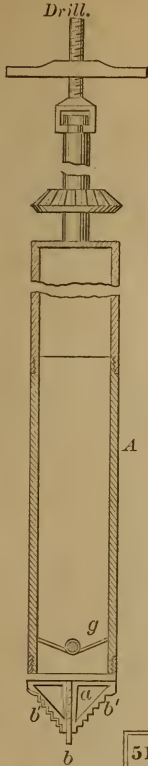
51373—W. Wharton, Jr.—Railroad Switch.

51372—Webber & Reifsnyder—
Filling Barrels.51374—W. N. Whiteley, Jr.—
Harvester.

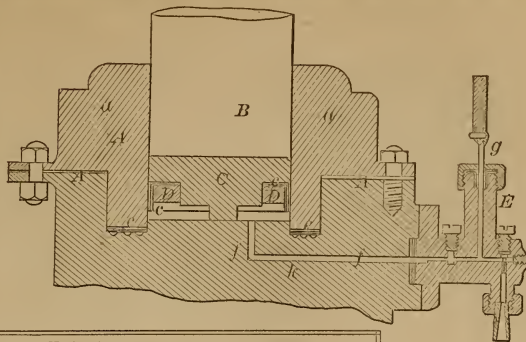
51375—S. H. Wiley—Drafting Scale.



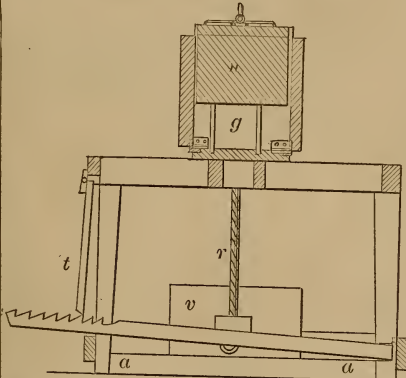
51376—Williams & Wilson—Rock Drill.



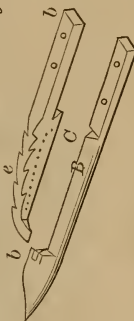
51378—S. Wilmarth—Raising Turrets by Hydraulic Pressure.



51377—U. B. Williams—Wool Press.



51380—A. Winslow—Harvester Fingers.

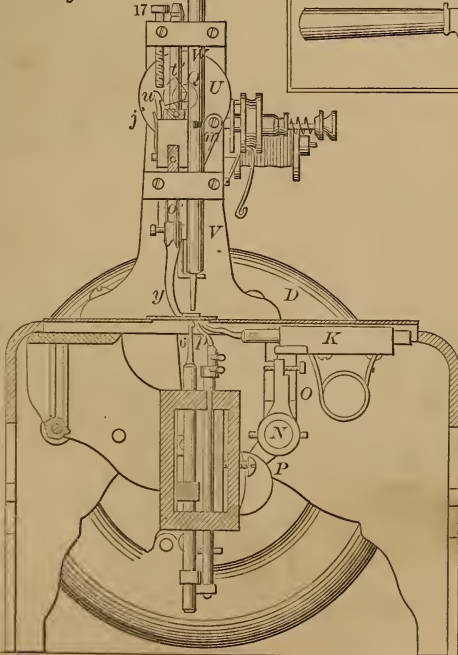


51382—

Ashdown & Galpin—For Sinking Wells.



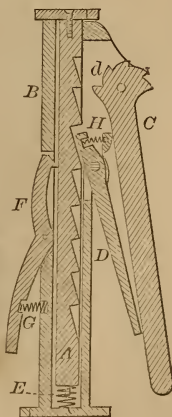
51383—E. E. Bean—Sewing Machine.



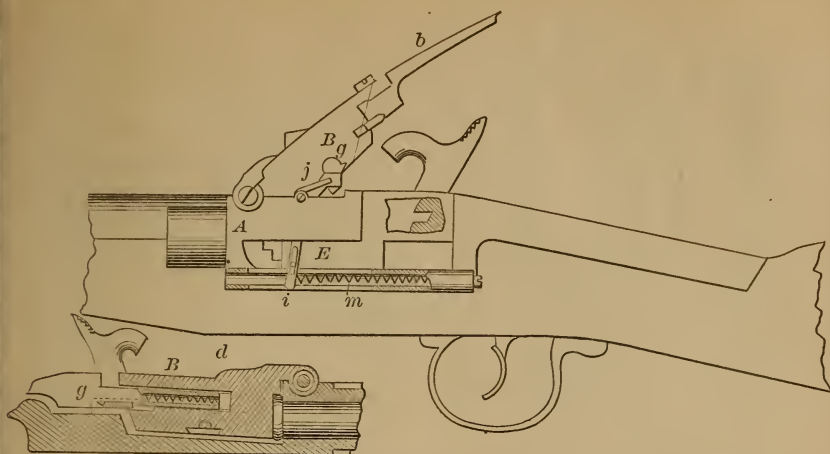
51379—I. Winslow—Knife for Cutting Green Corn.



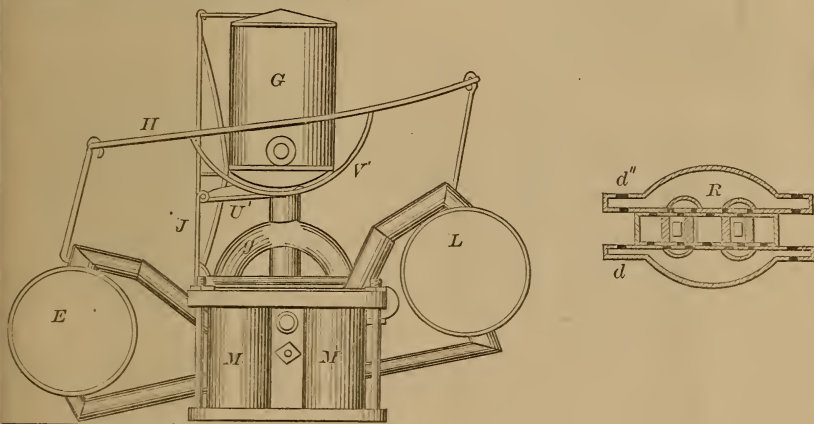
51381—A. Woodworth—Lifting Jack.



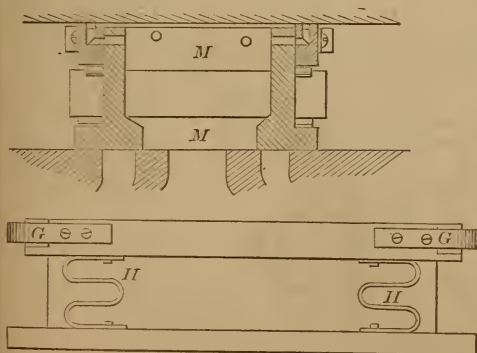
51391—E. S. Piper—*Cartridge Retractor*.



51392—C. H. Prentiss—*Boiler Feeder*.

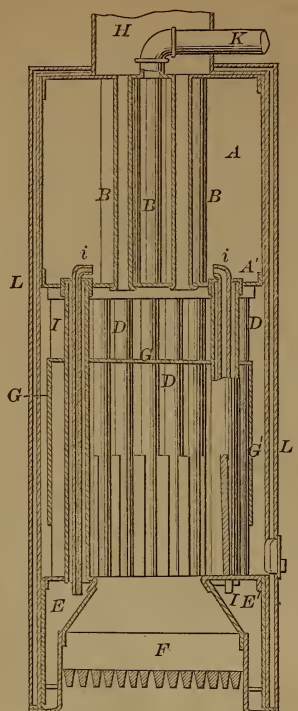
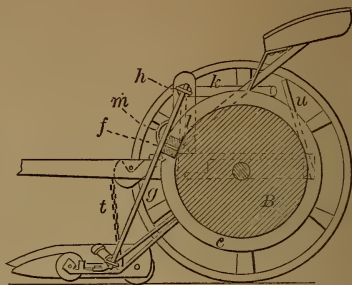
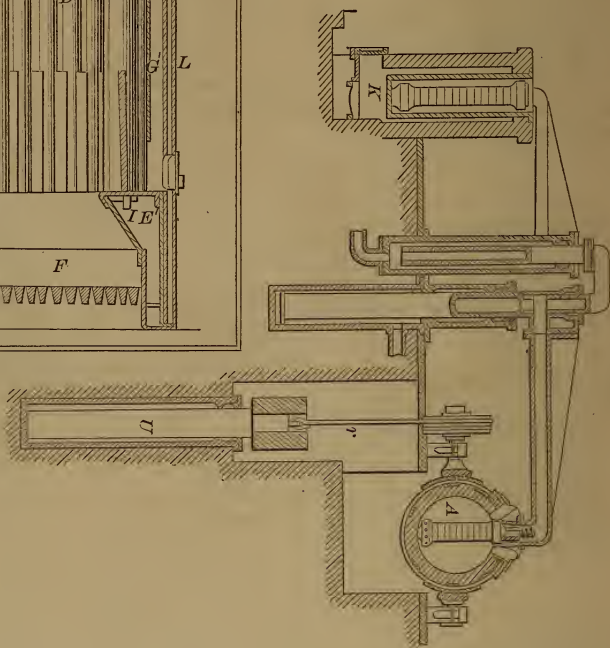
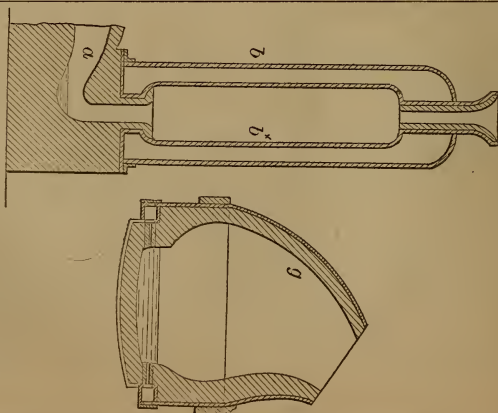


51393—J. Rowdotham—*Slide Valve*.

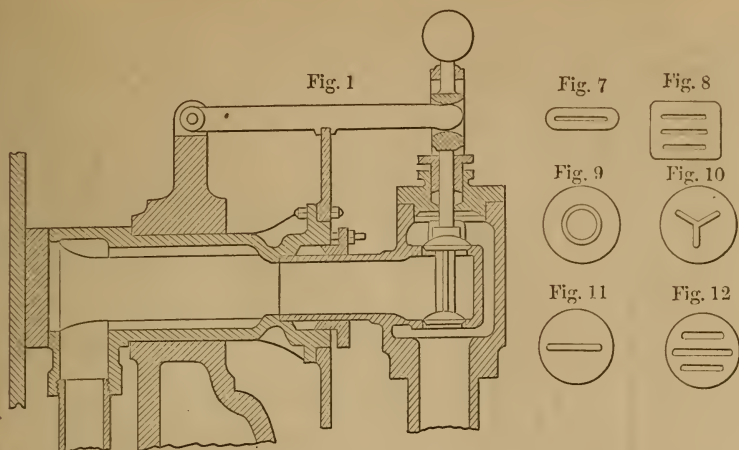


51394—A. F. Saunders—*Step Ladder*.

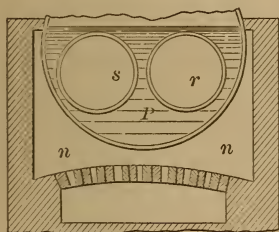


51395—S. Wilcox, Jr.—*Steam Generator.*51396—Whitney & Hardison—*Mowing Machine.*51397—H. Bessemer—*Making Iron and Steel.*51398—H. Bessemer—*Making Iron and Steel.*

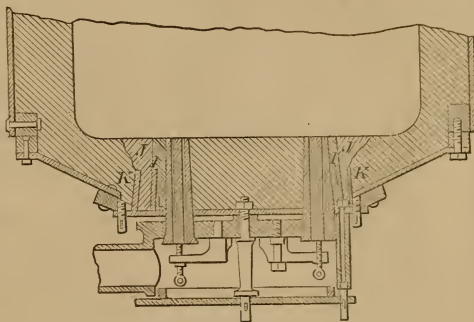
51399—H. Bessemer—*Making Malleable Iron and Steel.*



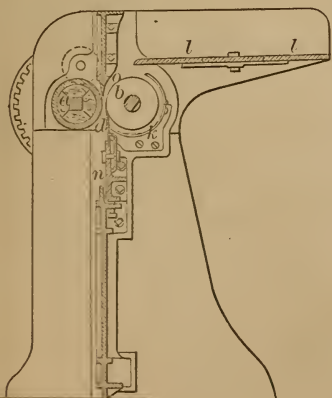
51400—H. Bessemer—*Making Malleable Iron and Steel.*



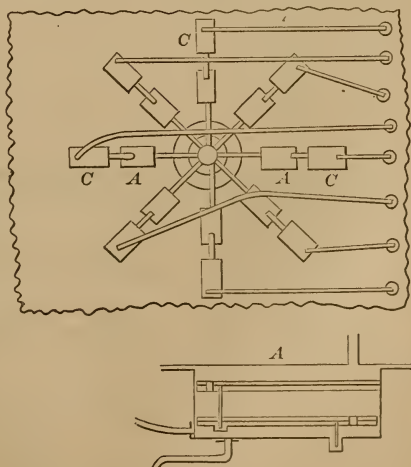
51401—H. Bessemer—*Making Malleable Iron and Steel.*

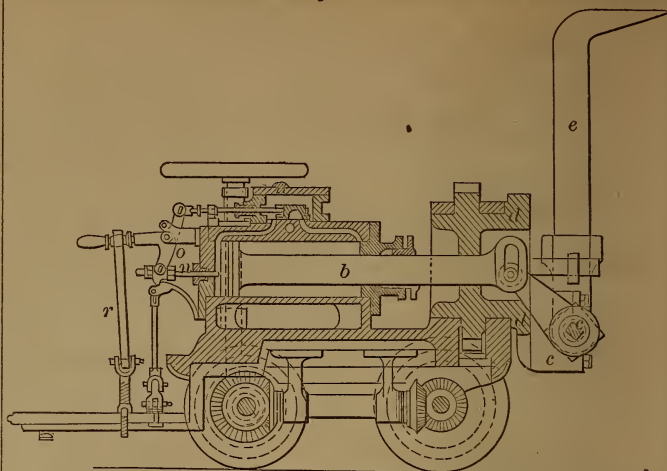
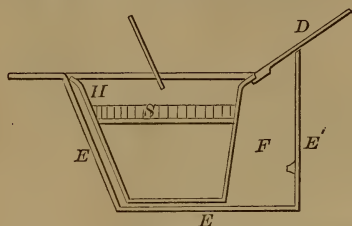
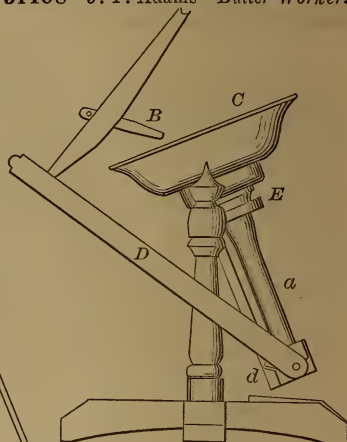
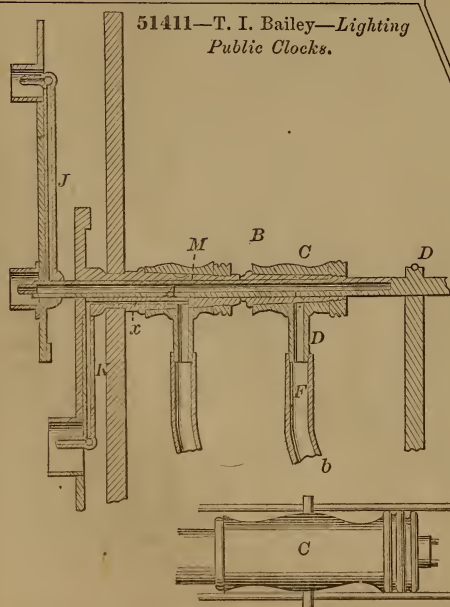
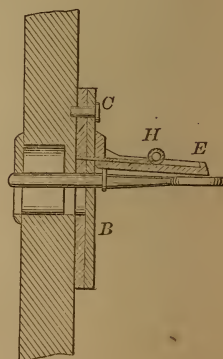


51402—C. Brakell—*Cotton Gin.*

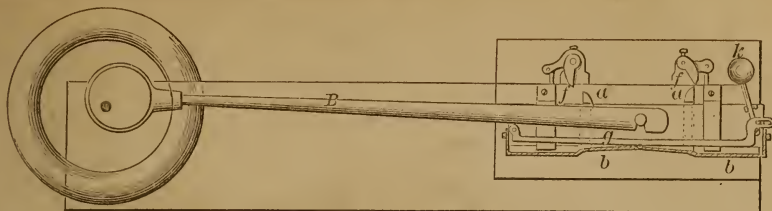


51403—F. Haack—*For Distilling Spirits.*

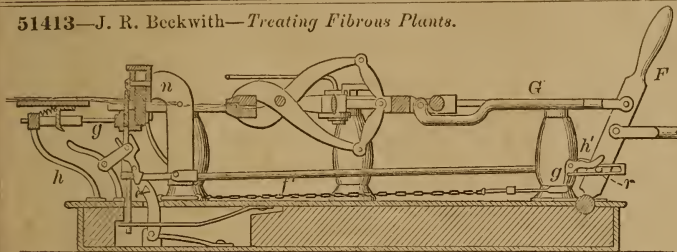


51405—J. G. Jones—*Coal Mining.*51409—I. C. & A. B. Allerton—*Stove Pipe Damper.*51406—A. C. Williams—*Cooking Stove.*51408—J. P. Adams—*Butter Worker.*51411—T. I. Bailey—*Lighting Public Clocks.*51410—J. B. Ayer—*Key Fastener.*

51412—H. B. Beckman—*Steam Engine Stop Motion.*



51413—J. R. Beckwith—*Treating Fibrous Plants.*

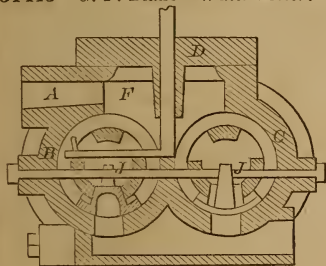


51416—

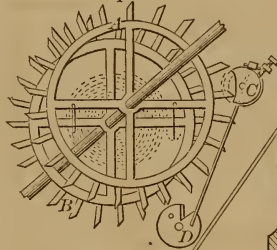
O. S. Bliss—*Weighing Apparatus.*



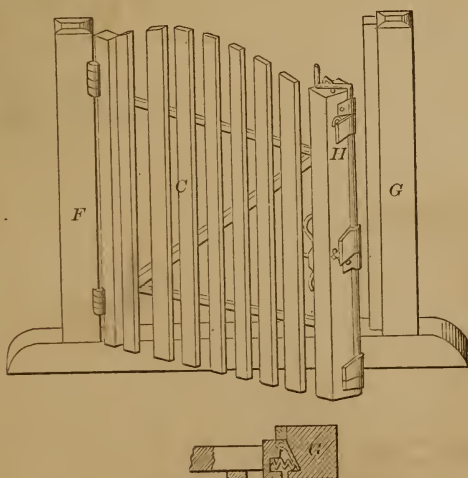
51415—G. F. Blake—*Water Meter.*



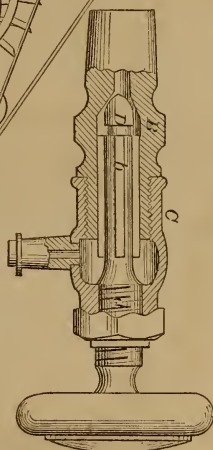
51414—L. Billon—*Watch Escapement.*



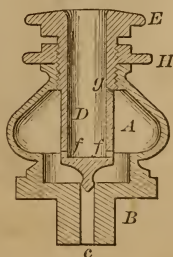
51417—W. Broomhall—*Gate Fastening.*



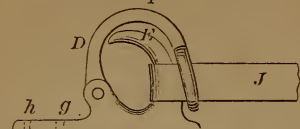
51418—J. Broughton—*Gauge Cock.*



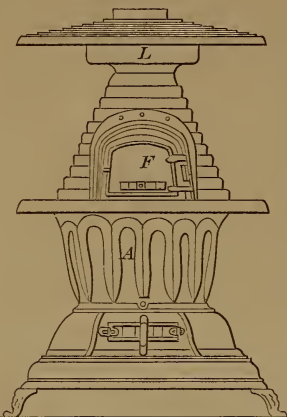
51419—J. Broughton—*Lubricator.*



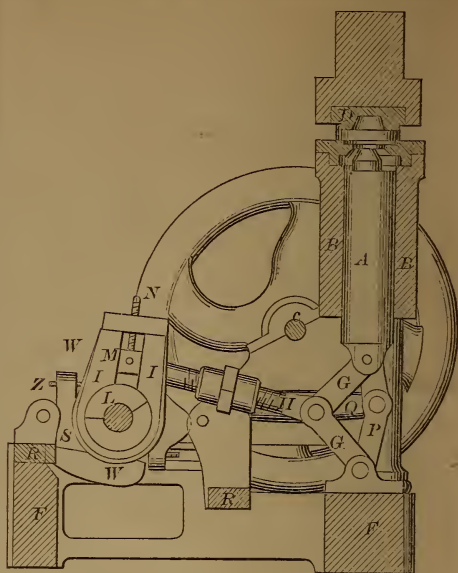
51420—J. Bullene, Jr.—*Rein and Back Strap Holder.*



51424—G. Chilson—*Coal Stove.*



51421—M. Bray—*For Forming Sheet Metal Ware.*



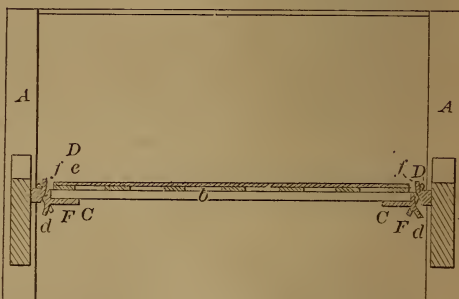
51425—Clock & Ryan—*Trace Fastener.*



51422—O. R. Burnham—*Bung.*



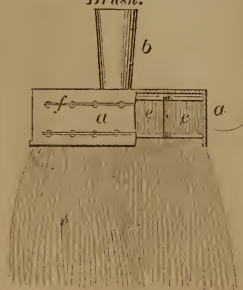
51427—H. A. Cooke—*Bed Bottom.*



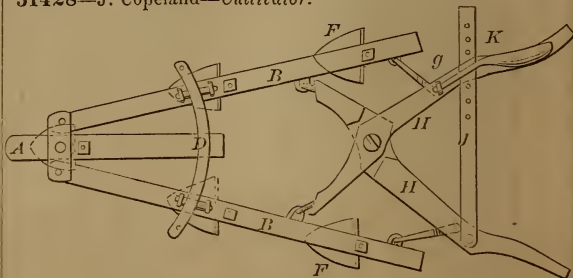
51426—Close & Buckman—*Hinge.*



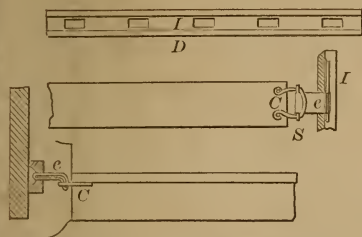
51423—M. L. Byrn, M. D.—*Brush.*



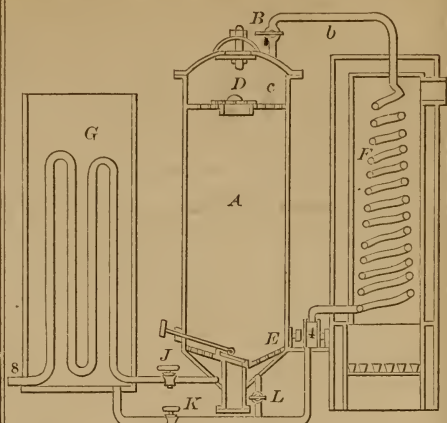
51428—J. Copeland—*Cultivator.*



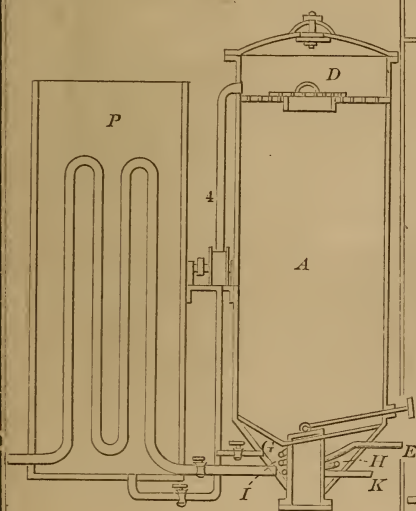
51429—M. C. Cronk—*Bed Bottom.*



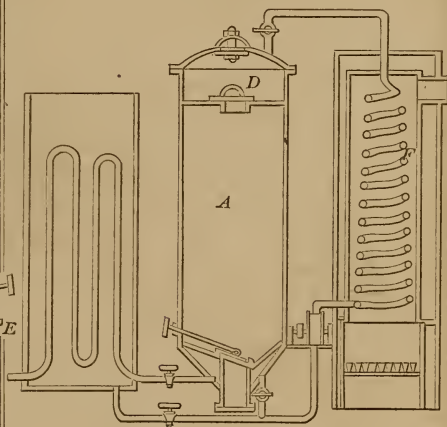
51432—J. W. Dixon—*Making Paper Pulp.*



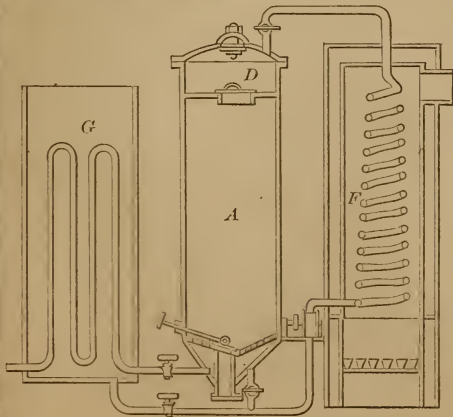
51430—J. W. Dixon—*Making Paper Pulp.*



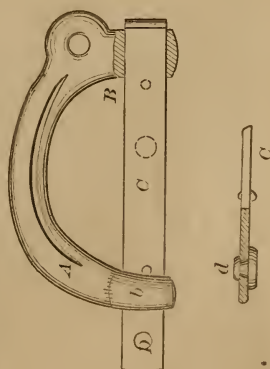
51433—J. W. Dixon—*Making Paper Pulp.*



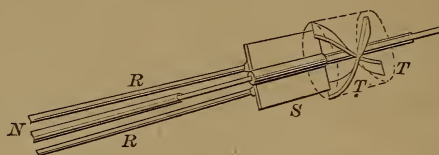
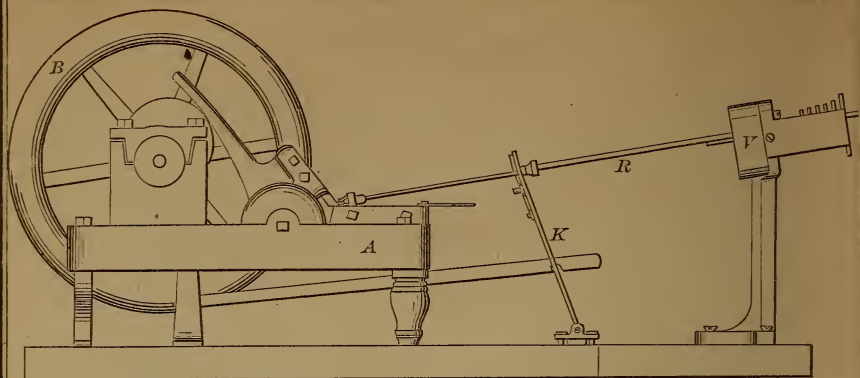
51431—J. W. Dixon—*Making Paper Pulp.*



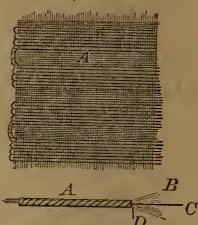
51434—H. W. Dopp—*Seat Lock.*



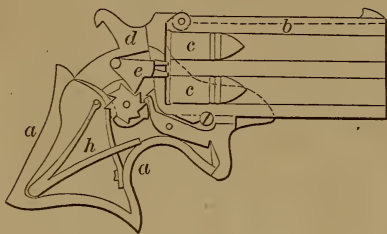
51435—D. Drawbaugh—Nail Plate Feeder.



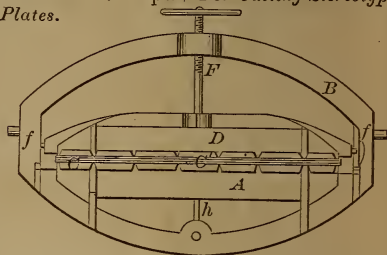
51436—J. Downie—Cloth of Hair, Grass, &c.



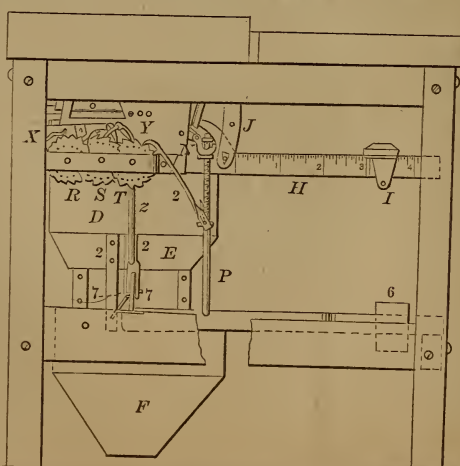
51440—W. H. Elliot—Fire Arm.



51437—W. F. Draper—For Casting Stereotype Plates.



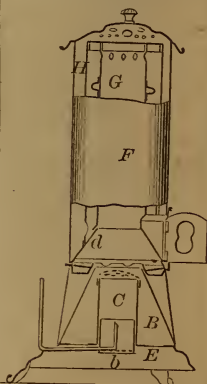
51438—E. F. Dunaway—For Weighing Grain.



51439—L. Egan—Shoemaker's Burnisher.



51441—L. Erving—Gas Stove.

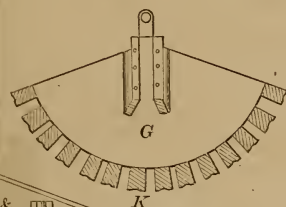
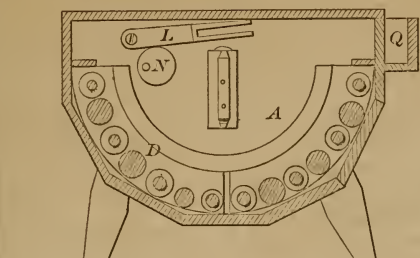


51442—

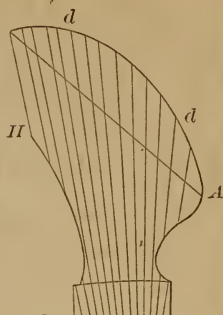
Farmer & Smith—Thermo-Electric Battery.



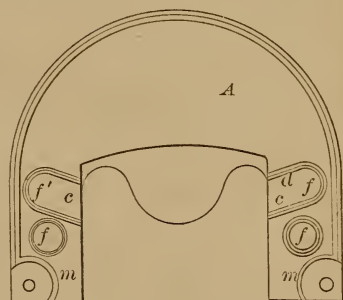
51444—M. Gardner, Sr.—Washing Machine.



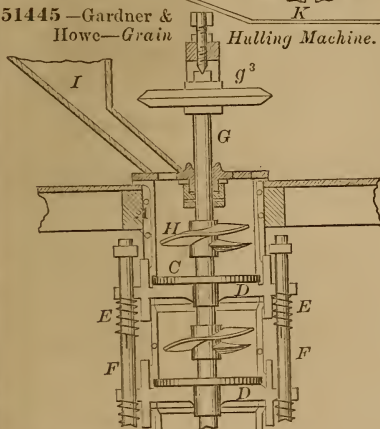
51446—C. C. Gates—Propeller Blade.



51448—S. J. Gold—Steam Boiler.



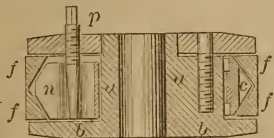
51445—Gardner & Howe—Grain Hulling Machine.



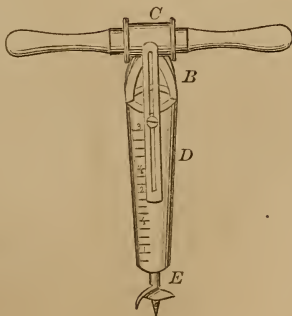
51447—E. W. Gilmore—Hinge.



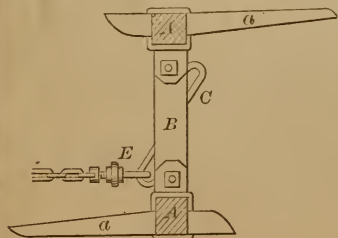
51449—S. Goodfellow—Piston Packing.



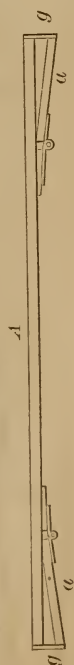
51451—L. Gray—Bunghole Reamer.

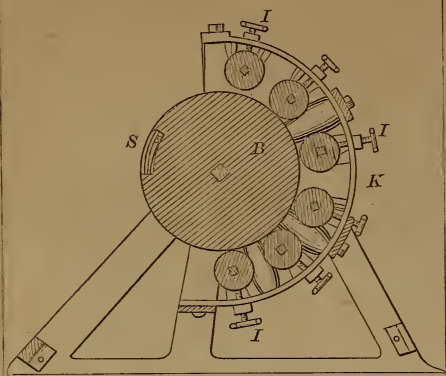
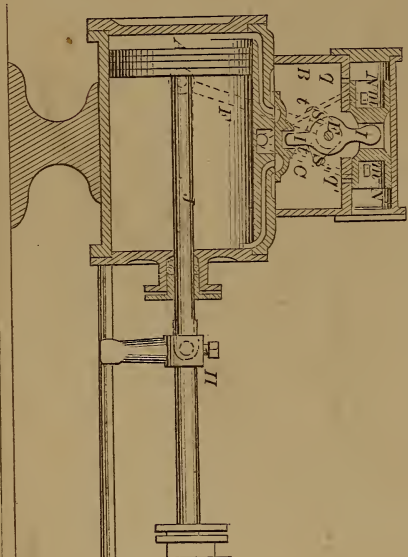
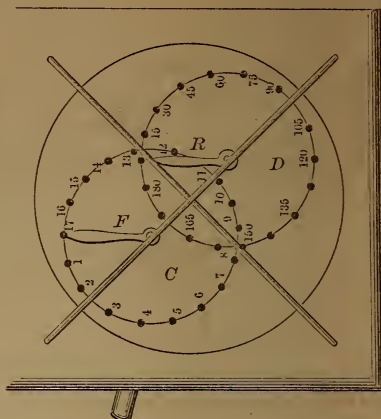
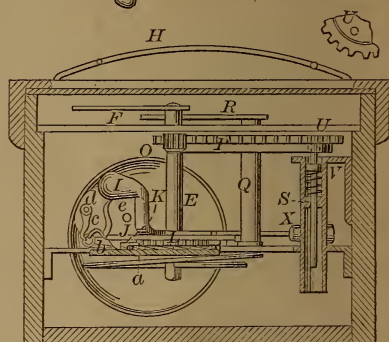
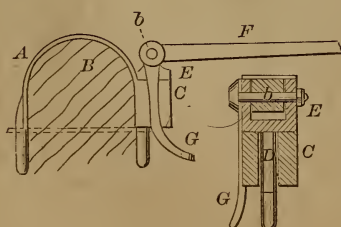
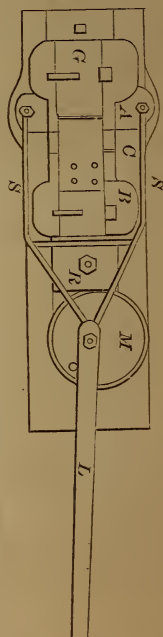


51450—R. A. Graham—Horse Rake.

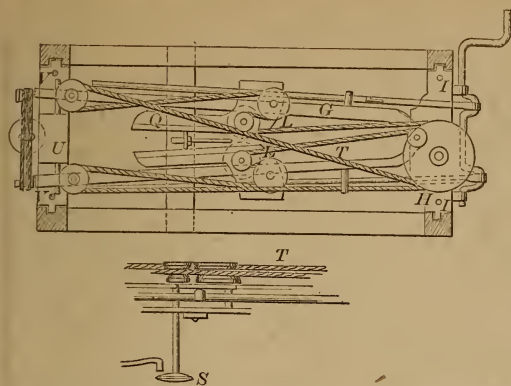


51443—J. M. French—Bed Bottom.

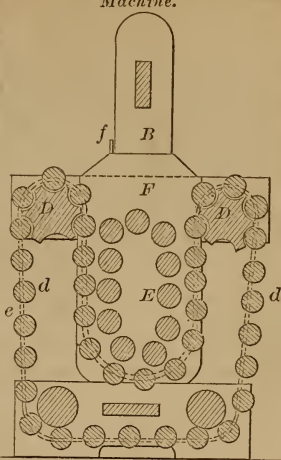


51452—J. B. Greenhut—*Clothes Mangle.*51453—J. B. Greenhut—*Street Car Register.*51454—Gault & Garrison—*Steam Engine Valve Gear.*51455—
W. E. Hill—*Grate Bar.*51457—J. W. Innis—*Thill Coupling.*51456—H. L. Howard—*Fire Upsetting Machine.*

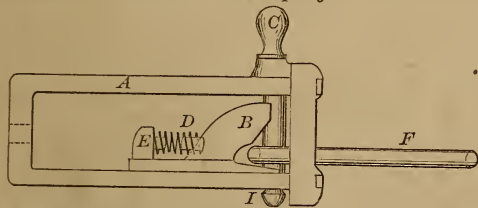
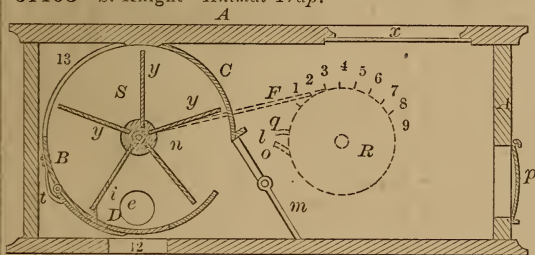
51458—J. Jackson—*For Cutting Wood Gear.*



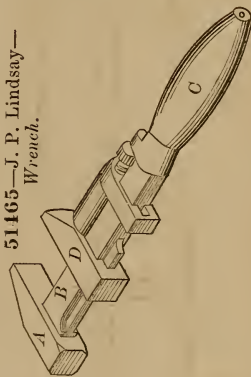
51460—P. Killin—*Washing Machine.*



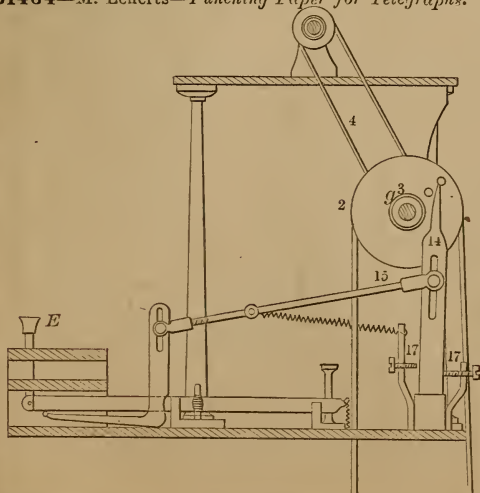
51461—G. L. Kitson—*Car Coupling.*

51463—S. Knight—*Animal Trap.*

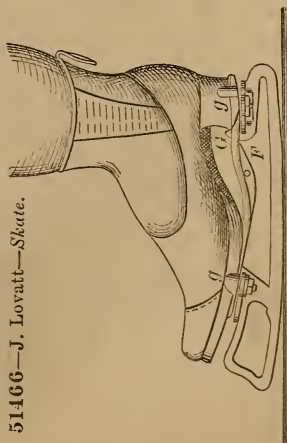
51465—J. P. Lindsay—
Wrench.

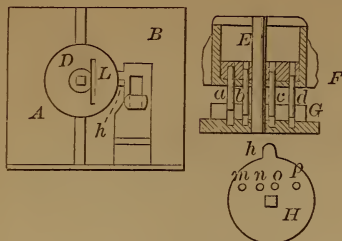
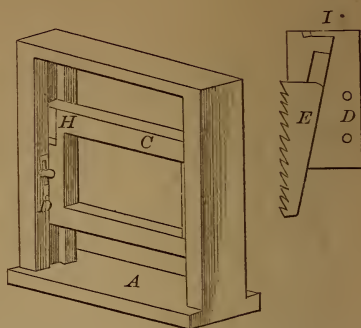
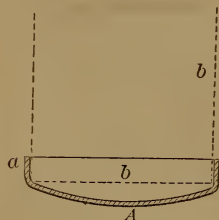
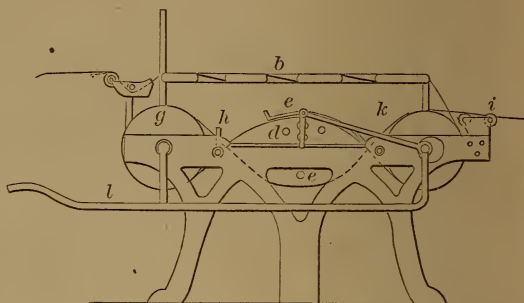
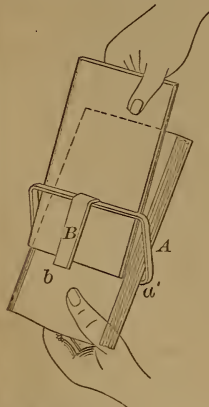
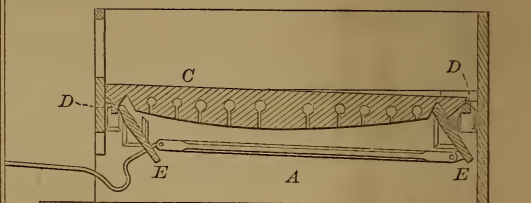
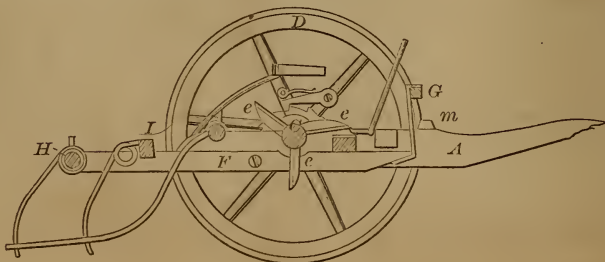


51464—M. Lefferts—*Punching Paper for Telegraphs.*

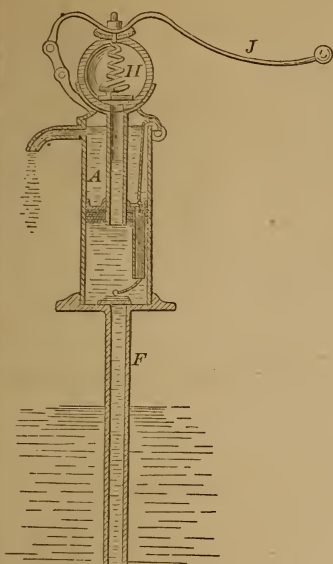


51466—J. Lovatt—Skate.



51467—L. H. Mayott—*Lock.*51469—J. B. Masser—*Sash Fastener.*51468—E. M. Manigle—*Bottom for Ice Cream Freezer.*51471—D. McInroy—*For Starching and Glazing Cord, &c.*51470—W. C. McGill—*File Holder.*51472—P. Murray—*Grate.*51473—G. N. Palmer—*Horse Rake and Hay Spreader.*

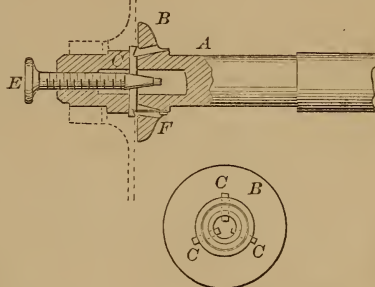
51474—F. S. Pease—*Pump.*



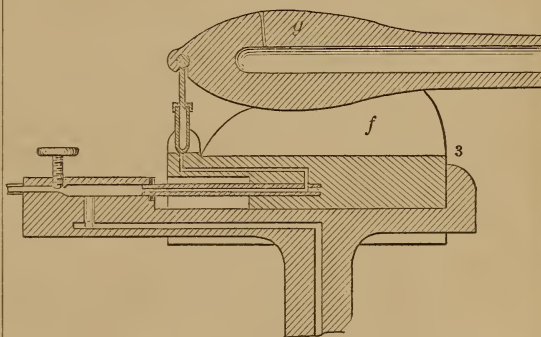
51476—E. N. Porter—*Hinge.*



51478—W. T. & L. H. Rand—*Centering Circular Saws.*



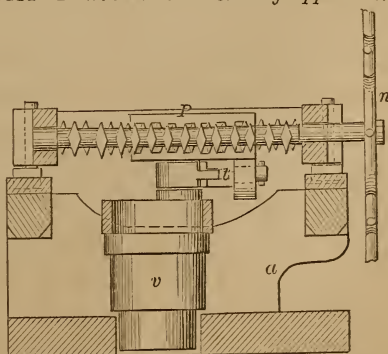
51475—C. Perley—*Operating Ordnance.*



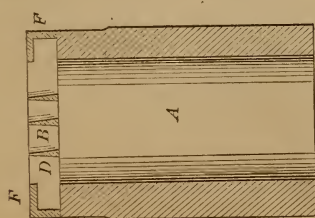
51477—A. C. Rand—*Weather Prophet.*

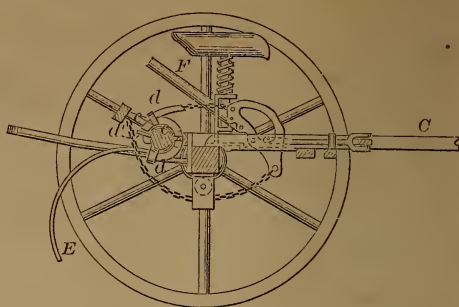
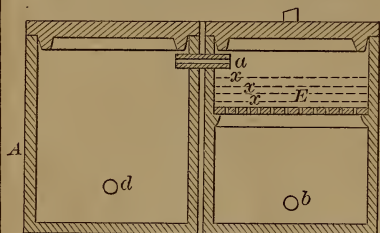
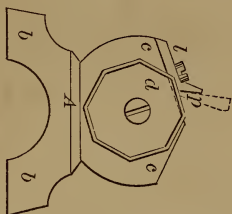
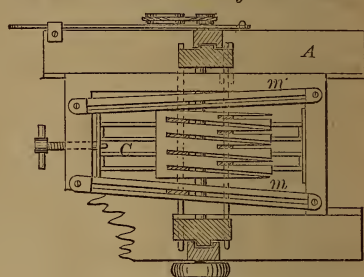
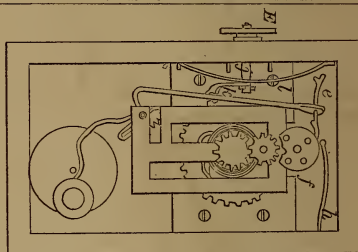
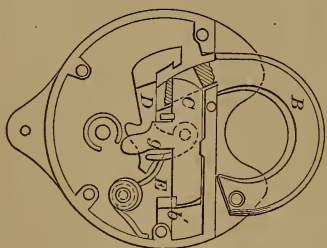
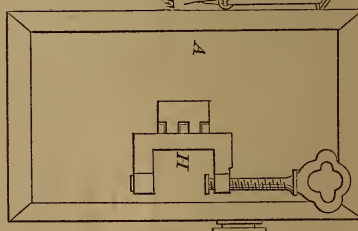
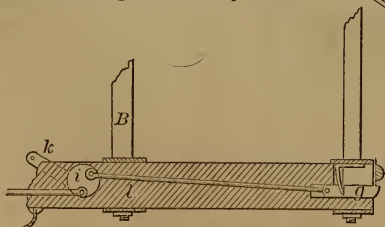


51481—P. W. Robinson—*Steering Apparatus.*

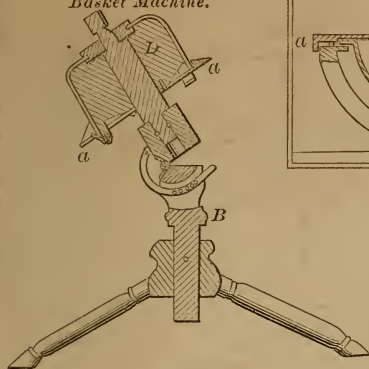


51479—J. H. Reed—*Fruit Slicer.*

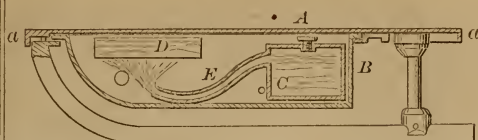


51482—H. Rockwell—*Cane Stripper.*51486—D. P. Sharp—*Horse Rake.*51485—L. Scharff—*Filter and Cooler.*51484—S. T. Sanford—*Shingle Machine.*51483—J. J. Russ—*Scissors Sharpener.*51489—B. L. Stone—*Burglar Alarm.*51488—T. Staight—*Pulllock.*51490—G. F. Strong—*Horse Hay Fork.*

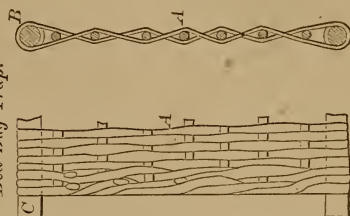
51491—Sweetland & Goodrich—*Basket Machine.*



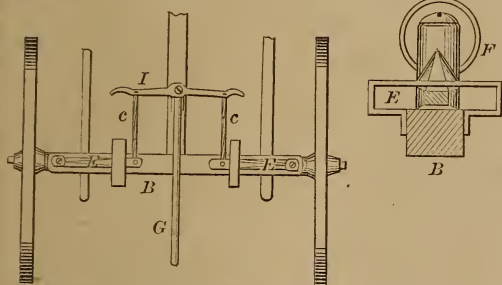
51492—O. W. Taft—*Heater for Skates.*



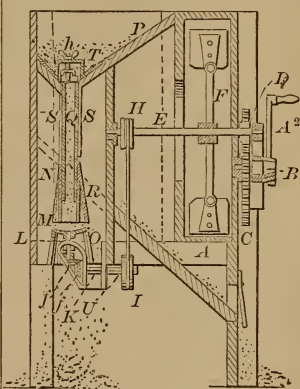
51493—W. Tapper—*Bed Bug Trap.*



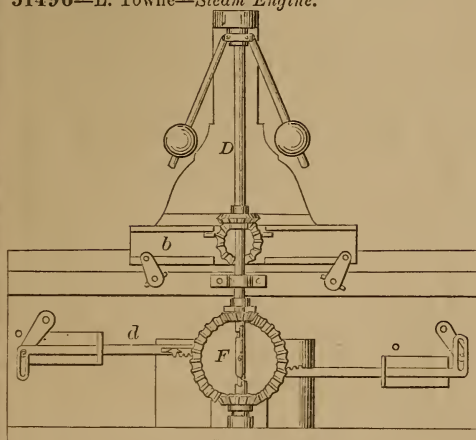
51494—Thomas, Mast & Harding—*Cultivator.*



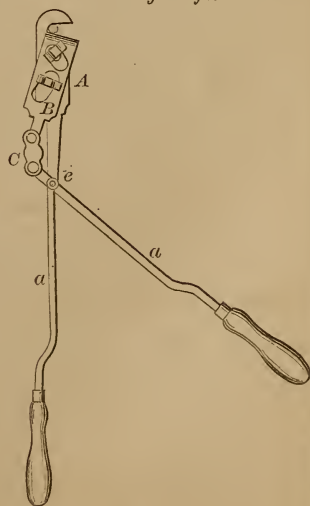
51495—A. J. Vandegrift—*Grain Separator.*



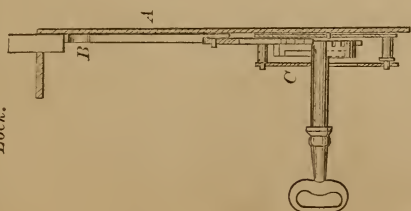
51496—L. Towne—*Steam Engine.*



51497—S. O. & P. W. T. Vaughan—*Pruning Knife.*

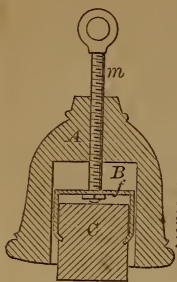


51498—R. Vollschwitz—*Lock.*

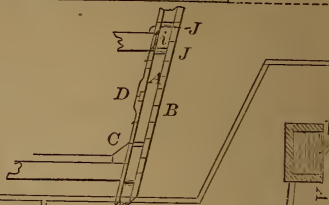
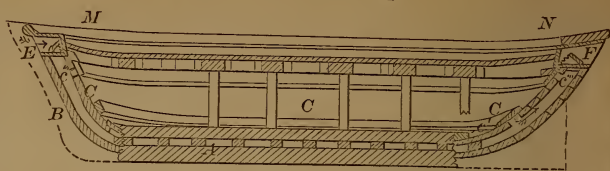


51499—H. M. Wall—

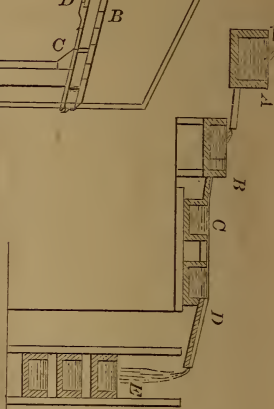
Billiard Table Chalk Holder.



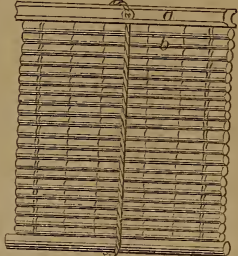
51504—O. D. Wells—For Ventilating Ships.



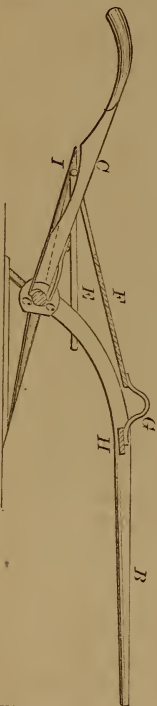
51502—Weller & Hatcher—For Making Sugar.



51501—Ward & Wilson—Window Shade.

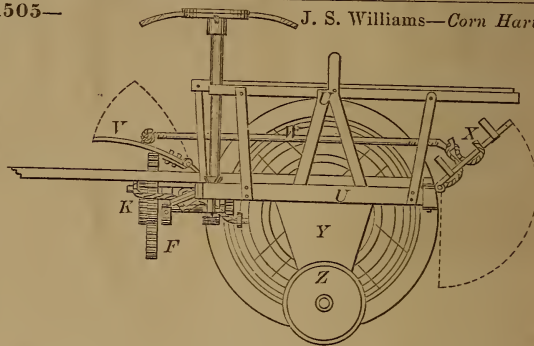


51503—M. D. Wells—Horse Rake.

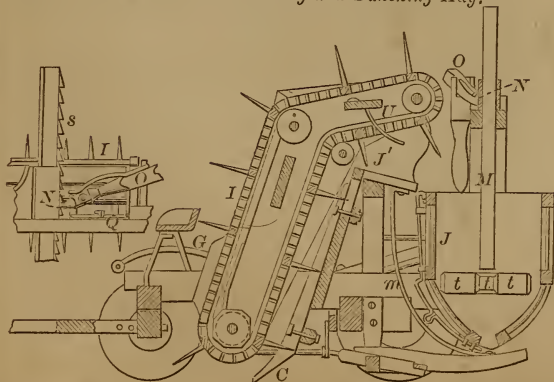


51505—

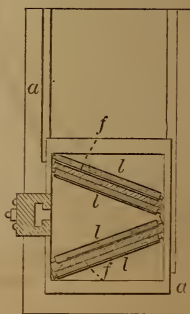
J. S. Williams—Corn Harvester.



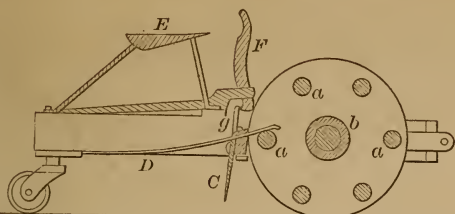
51500—L. Wallace—For Raking and Bunching Hay.



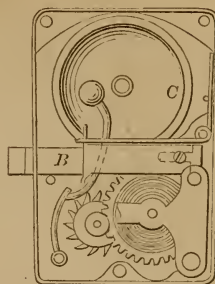
51506—W. L. Williams—Splitting Wood.



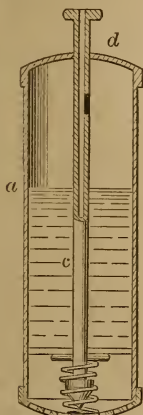
51507—G. W. Wilson—*For Cutting Stalks and Stubble.*



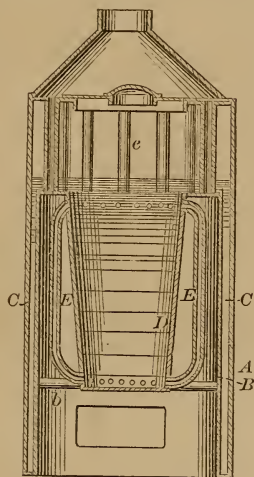
51511—A. W. Deerow—*Burglar Alarm.*



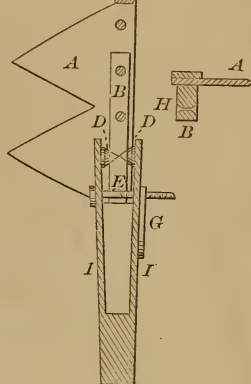
51509—E. T. Colburn—*Clothes Sprinkler.*



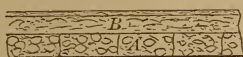
51510—J. Connery—*Steam Generator.*



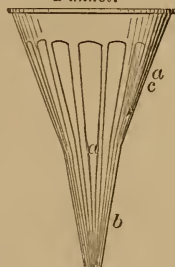
51512—H. S. Dodge—*Connecting Rod Coupling.*



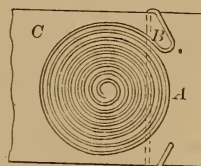
51513—D. C. Heller—*Composition Pavement.*



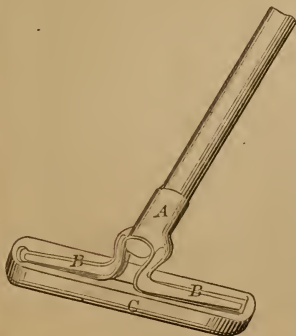
51515—C. Jones—*Funnel.*



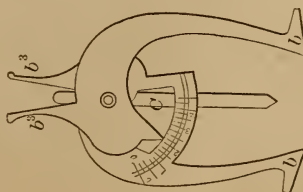
51516—D. Manuel—*Bedstead Spring.*

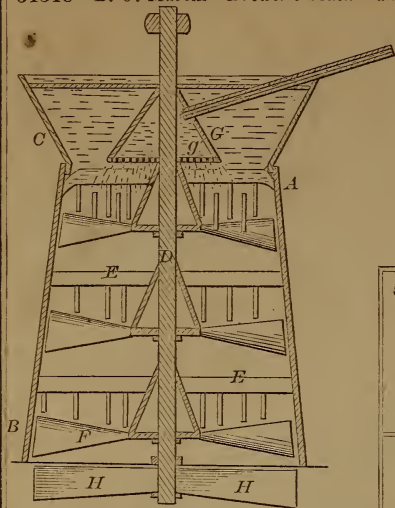
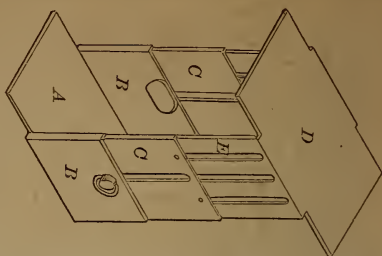
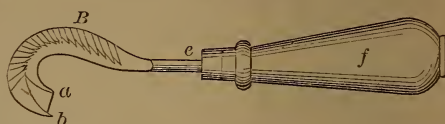
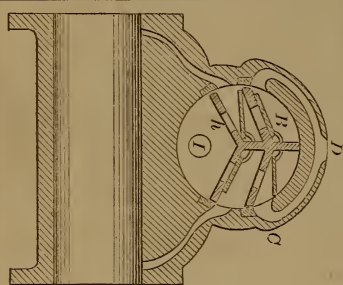
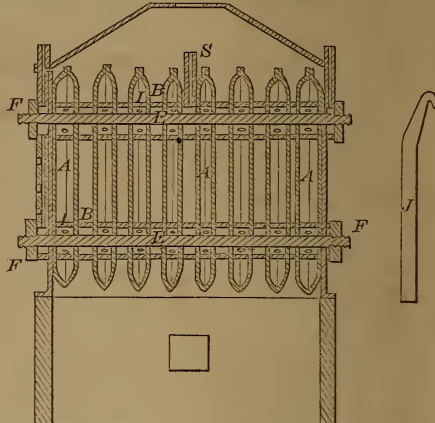
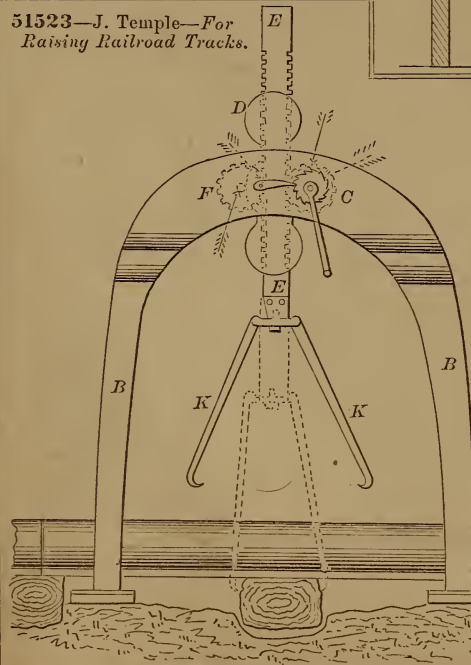
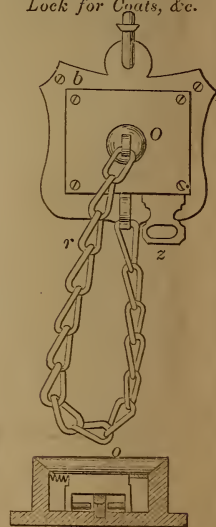


51514—P. R. Higley—*Mop Head.*

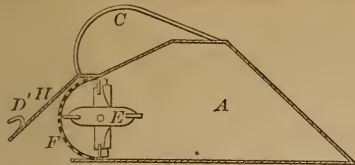


51517—B. G. Martin—*Culipers.*

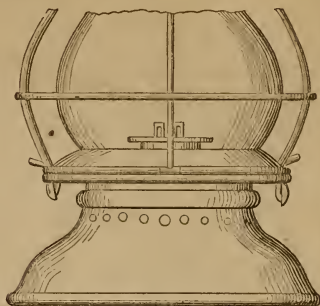


51518—B. G. Martin—*Brewer's Mash Tun.*51520—H. Riggs—*Letter File.*51519—J. B. Reed—*Welt Trimmer.*51521—J. Samuels—*Steam Generator.*51522—C. A. Stillman—*Pump.*51523—J. Temple—*For Raising Railroad Tracks.*51524—C. B. Trimble—*Lock for Coats, &c.*

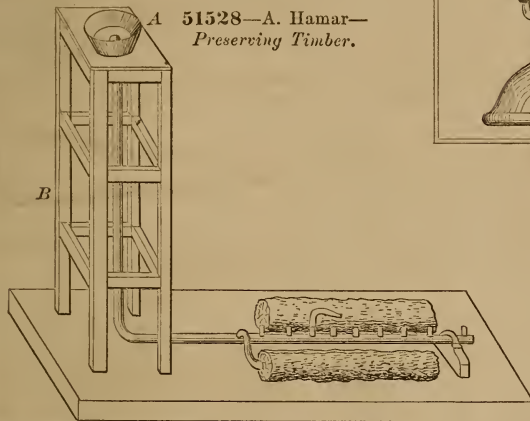
51525—G. S. Wendell—Scoop and Sifter.



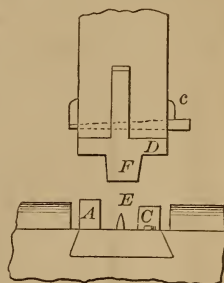
51526—W. Westlake—Lantern.



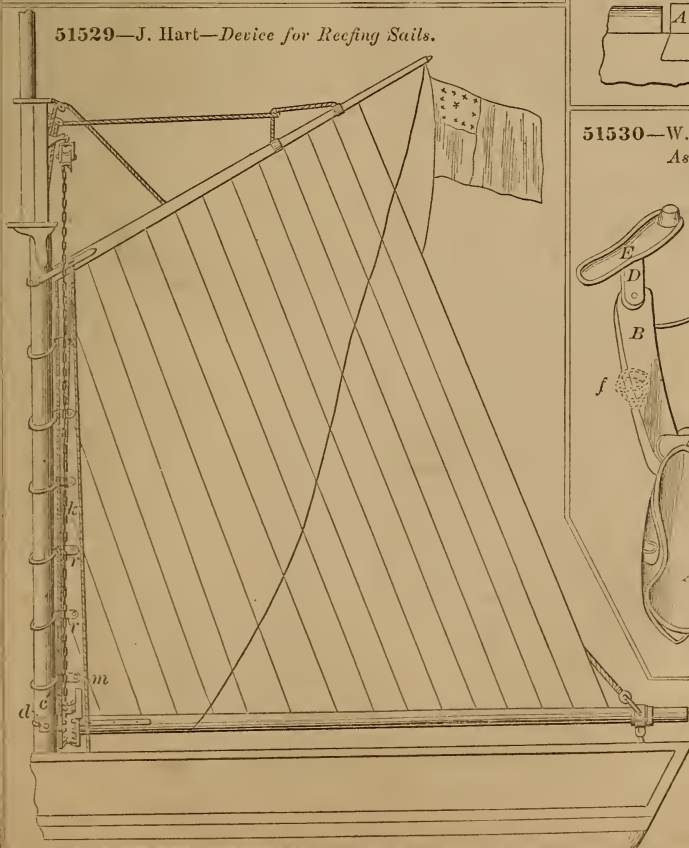
51528—A. Hamar—Preserving Timber.



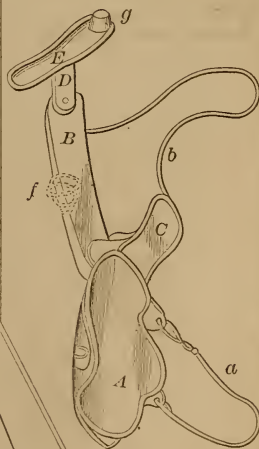
51527—H. Baines—Die for Making Railroad Crossing Points.



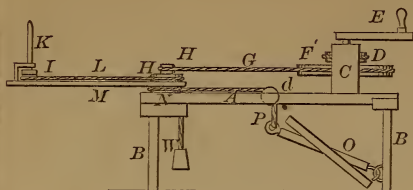
51529—J. Hart—Device for Reefing Sails.



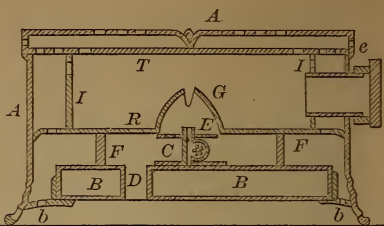
51530—W. King—Penman's Assistant.



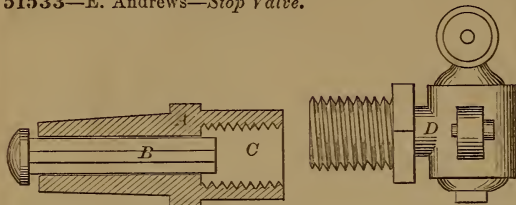
51532—J. M. Flood—Spinning Wheel.



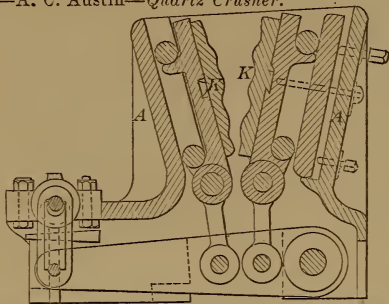
51531—J. J. Andrews—Foot Warmer.



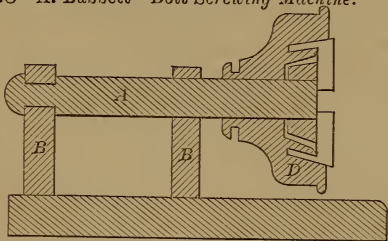
51533—E. Andrews—Stop Valve.



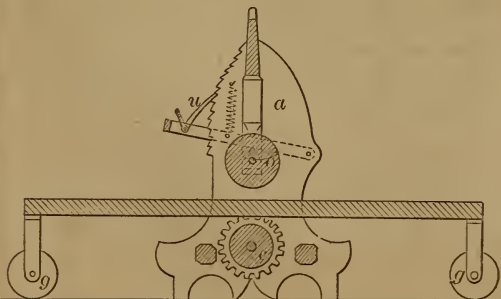
51537—A. C. Austin—Quartz Crusher.



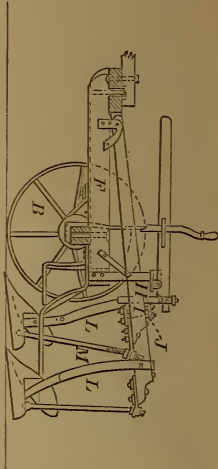
51538—A. Babbett—Bolt Screwing Machine.



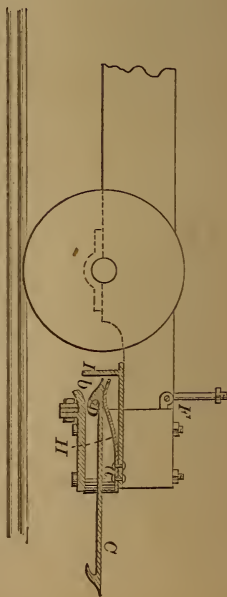
51539—D. B. Baker—Dough Roller.



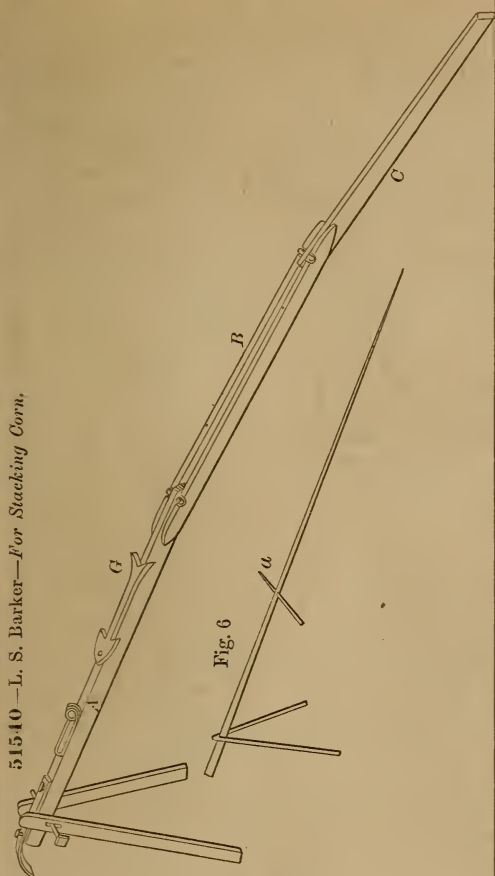
51536—C. Atwood—Gang Plow.



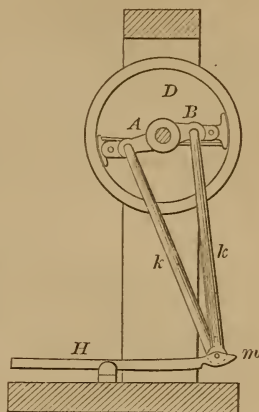
51535—T. Arndt—Car Coupling.



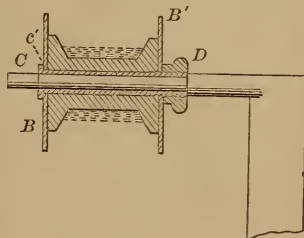
51540—L. S. Barker—For Stacking Corn.



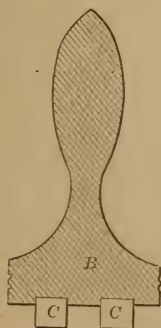
51541—M. M. Barnes—Sewing Machine.



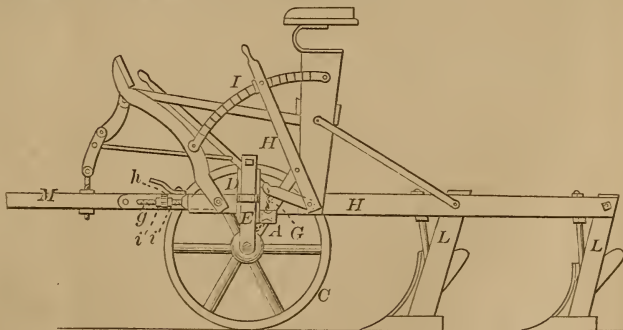
51544—H. E. Bodwell, Jr.—Sewing Machine.



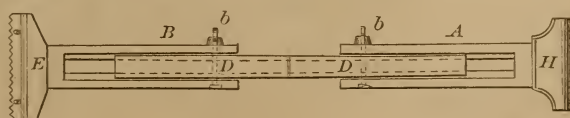
51542—
J. W. Battelle—
Knife Polisher.

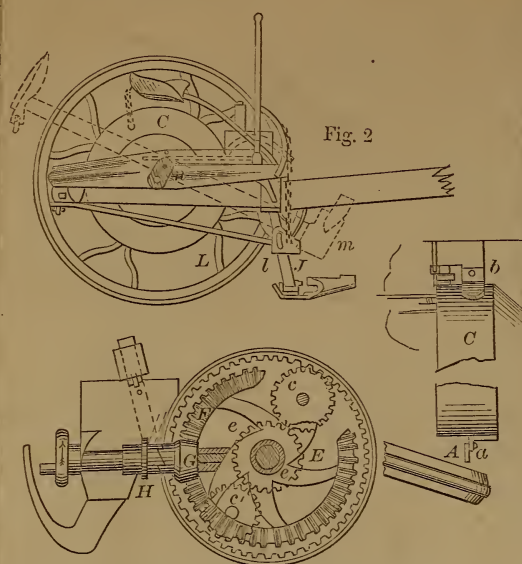
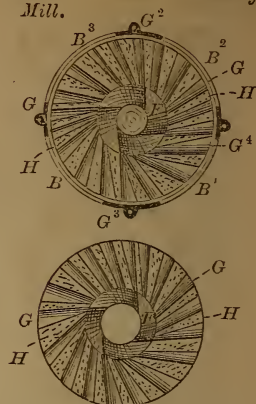
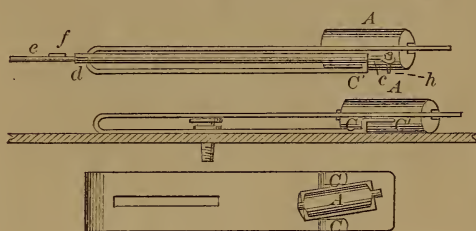
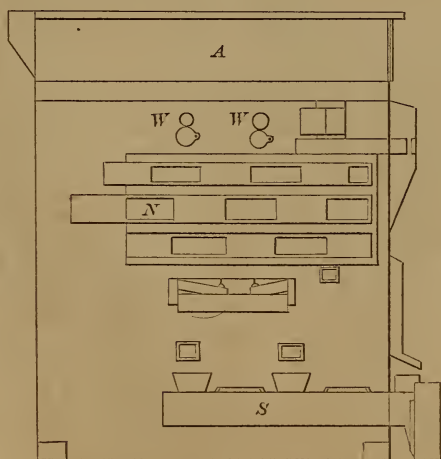
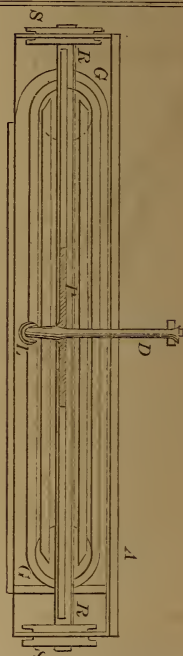
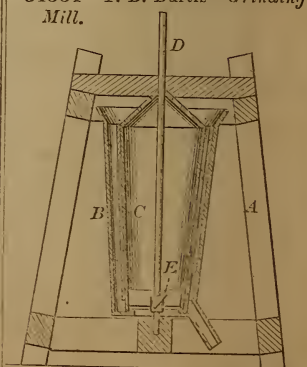


51543—J. F. & W. L. Black—Gang Plow.

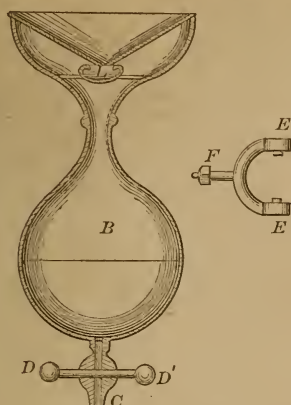


51545—J. Boyd—Carpet Stretcher.

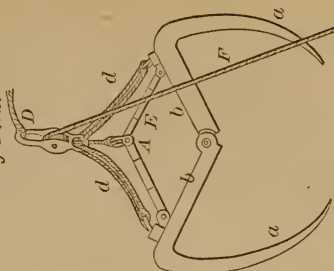


51546—F. Bramer—*Harvester.*51549—J. Brown—*Grinding Mill.*51547—F. H. Brown—*Tuck Marker for Sewing Machine.*51548—J. Brown—*Flour Bolt.*51550—R. D. Brown—*Harvester Rake.*51551—T. B. Burtis—*Grinding Mill.*

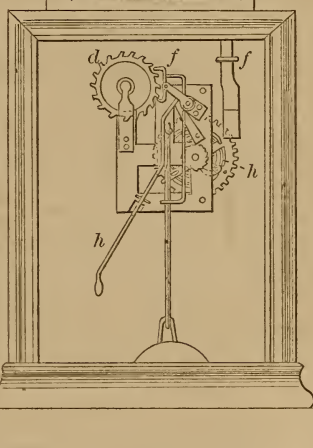
51552—W. M. Butler—*Dentist's Spittoon.*



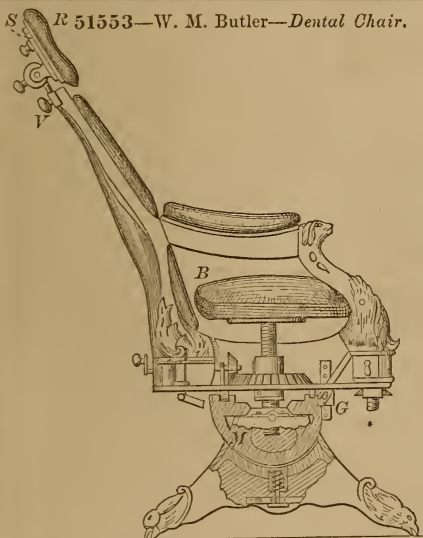
51553—A. Y. Case—*Horse Hay Fork.*



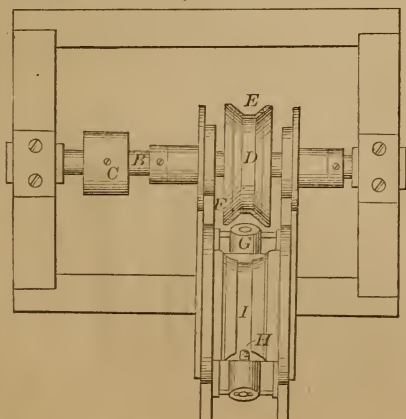
51556—W. K. Chase—*Calendar Clock.*



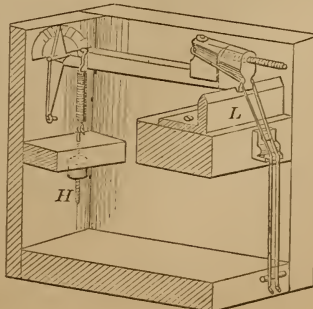
51553—W. M. Butler—*Dental Chair.*



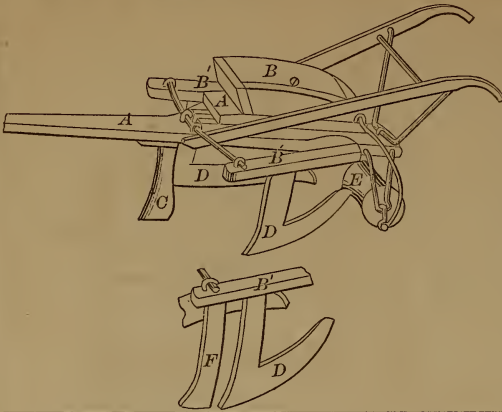
51554—W. W. Carey—*Lathe.*



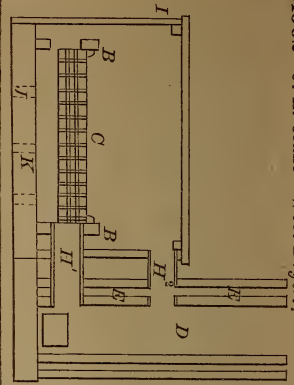
51559—Choplain & Chollet—*Stringing Pianos.*



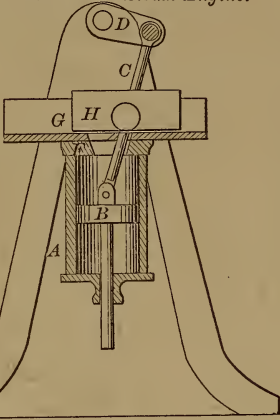
51560—J. C. Clement—*Potato Planter, &c.*



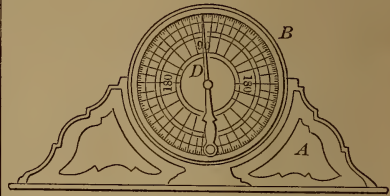
51562—J. E. Crane—*Wool Dryer.*



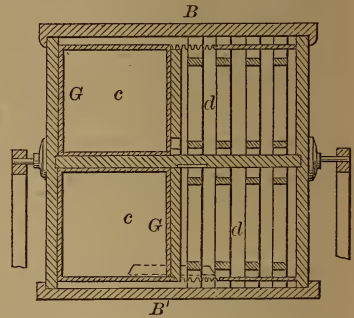
51565—T. A. de Blois—*Steam Engine.*



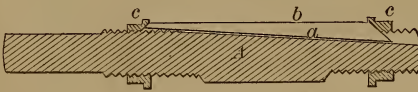
51564—G. Cuppers—*Plumb Level.*



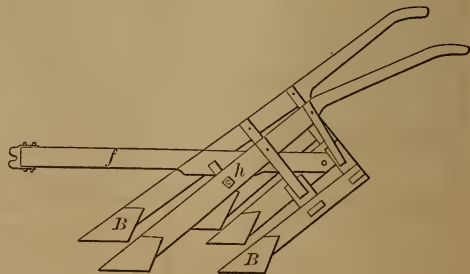
51566—L. Defenbaugh—*Beehive.*



51563—J. Critchley—*Expanding Tool.*



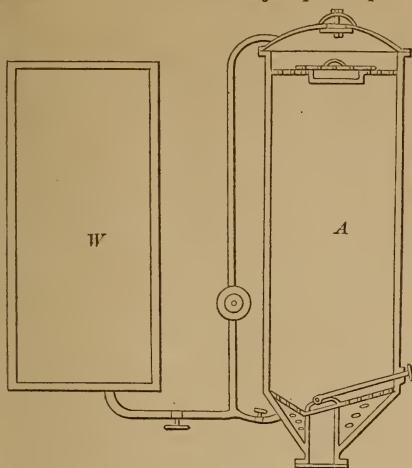
51567—D. Dennett—*Cultivator.*



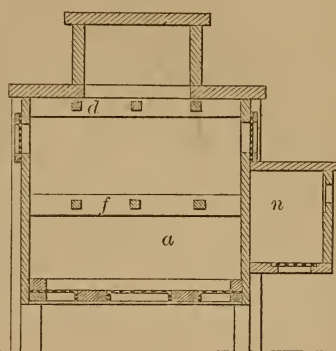
51561—M. W. Costello—*Bell Fastening.*



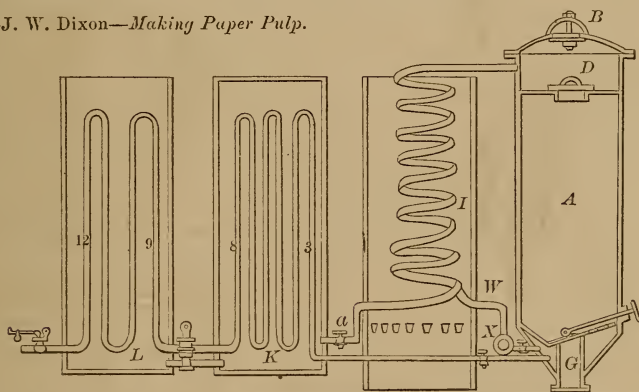
51569—J. W. Dixon—*Bleaching Paper Pulp.*



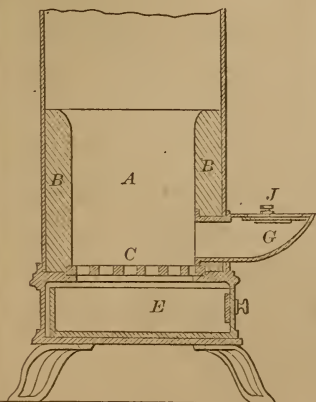
51573—E. Duncan—*Meat Safe.*



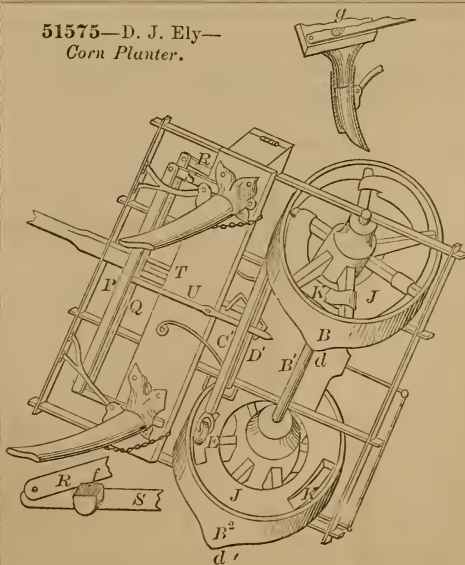
51571—J. W. Dixon—*Making Paper Pulp.*

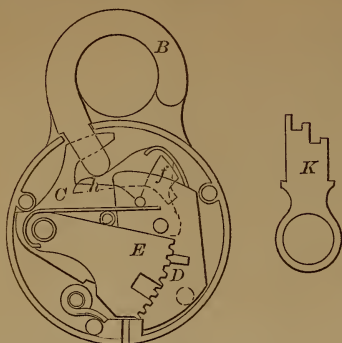
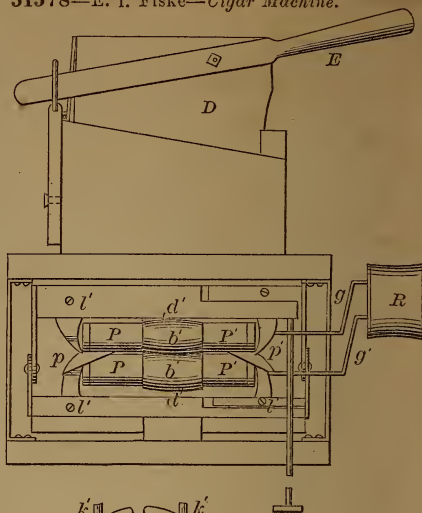
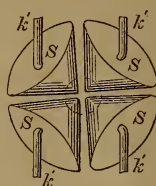
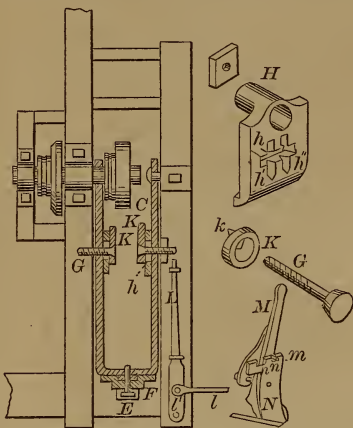
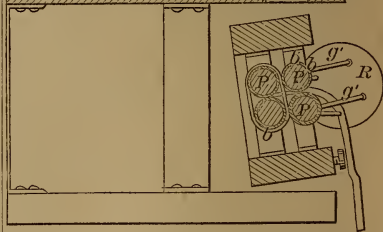
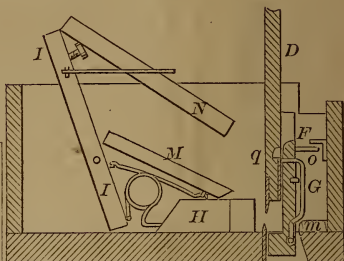
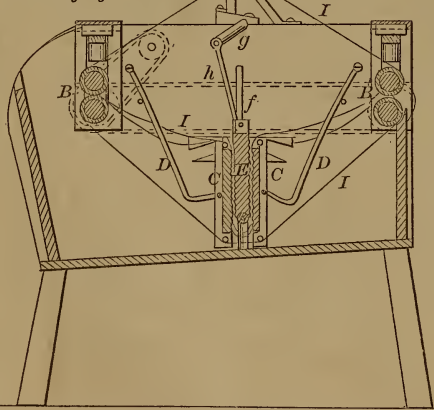
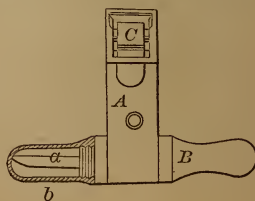
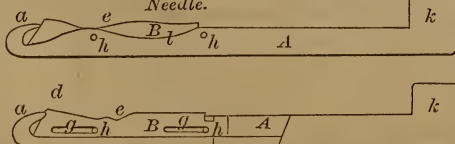


51574—J. W. Elliot—*Fire Lighting Attachment for Stoves.*

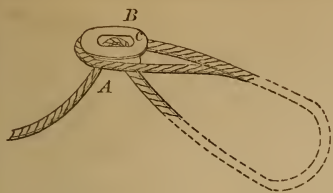


51575—D. J. Ely—*Corn Planter.*

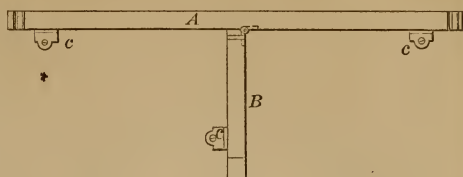


51576—V. Enders—*Padlock.*51578—E. I. Fiske—*Cigar Machine.*51579—J. L. Garver—*Harvester.*51580—R. A. Gawler—*Washing and Wringing Machine.*51581—H. E. Gentrig—*Strap Adjuster.*51577—L. W. Fifield—*Knitting Machine Needle.*

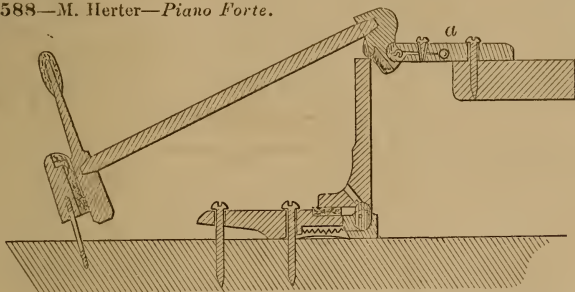
51582—K. Gibbs—Neck Rope Halter.



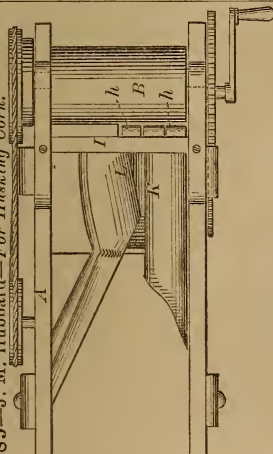
51583—G. W. Gillespie—Folding Shelf.



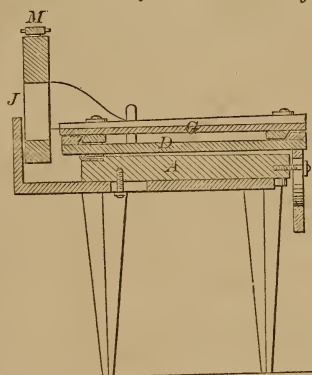
51588—M. Herter—Piano Forte.



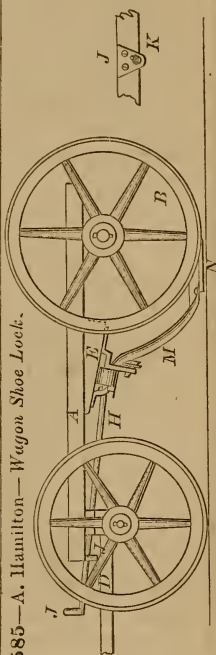
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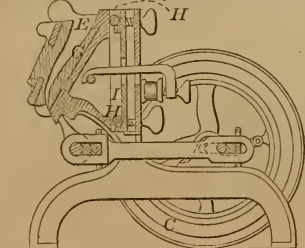
51587—P. Hayden—Cork Cutting.



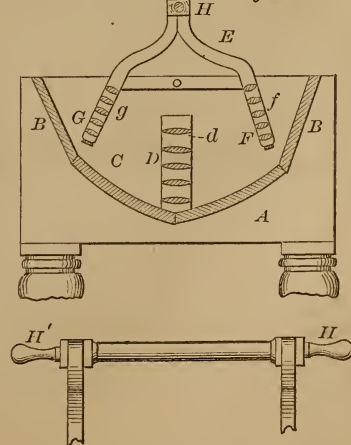
51585—A. Hamilton—Wagon Shoe Lock.



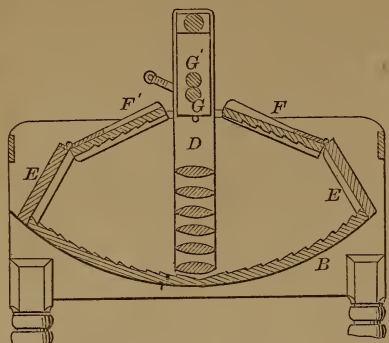
51586—W. W. Hanscom—Quartz Crusher.



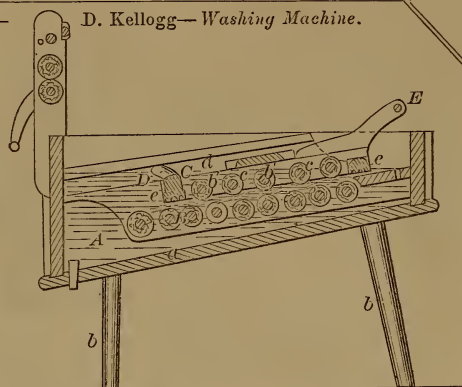
51590—M. Huie—Washing Machine.



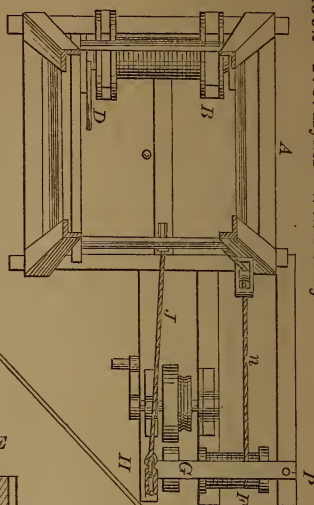
51591—M. Huiet—Washing Machine.



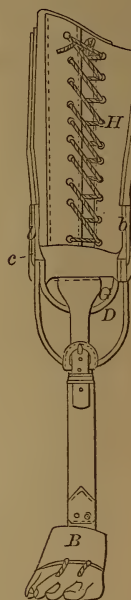
51595—D. Kellogg—Washing Machine.



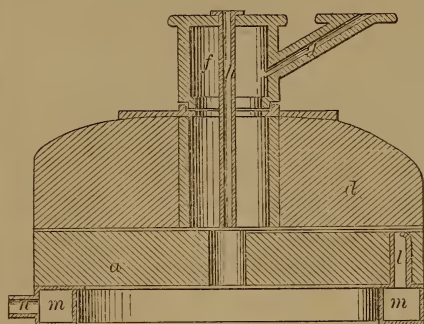
51592—P. J. Lyness—Well Boring.



51593—A. B. Jewett—Artificial Leg.



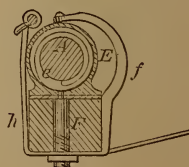
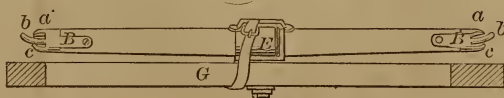
51596—J. Kemp—Grinding Mill.



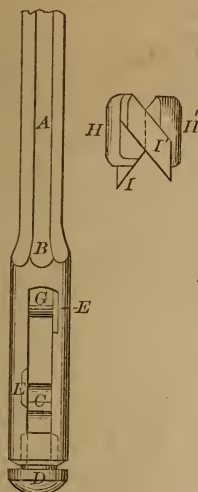
51594—E. M. Judd—Curtain Fixture.



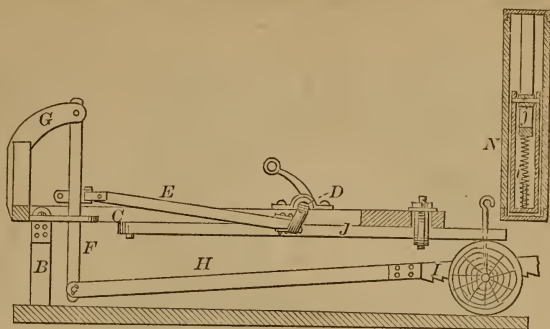
51597—C. C. Lee—Rotating Whiffletree.



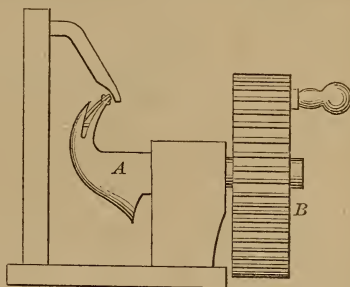
51598—J. M. Linseott—*Rock Drill.*



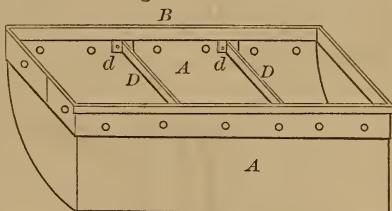
51601—J. R. Logan—*Sawing Machine.*



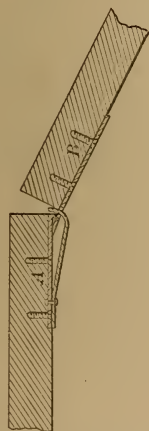
51600—S. D. Locke—*Grain Binder.*



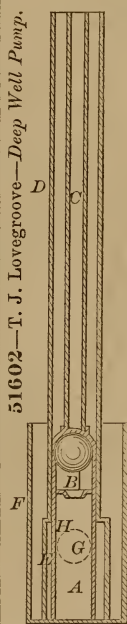
51603—J. Magee—*Elevator Bucket.*



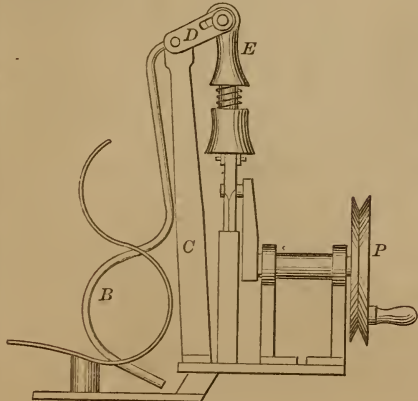
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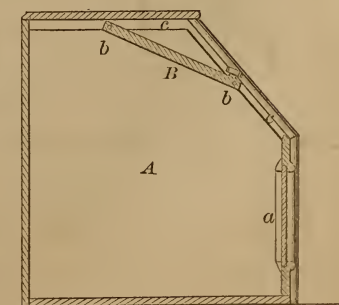
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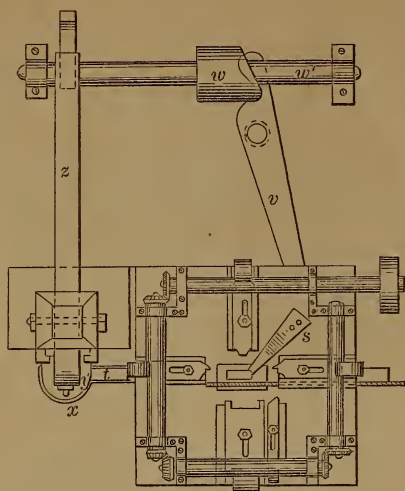
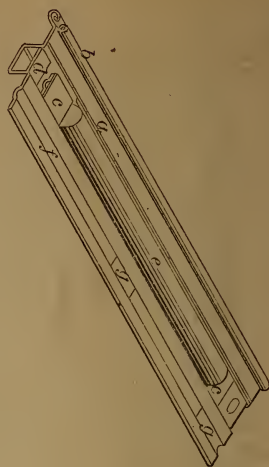
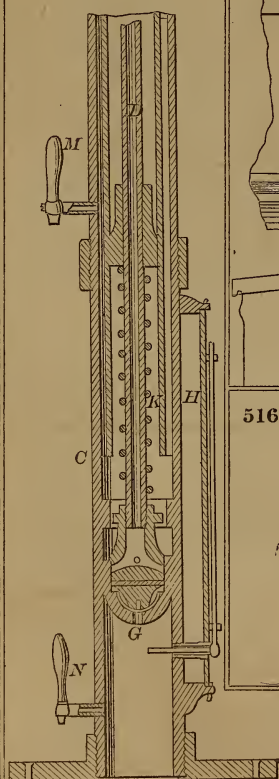
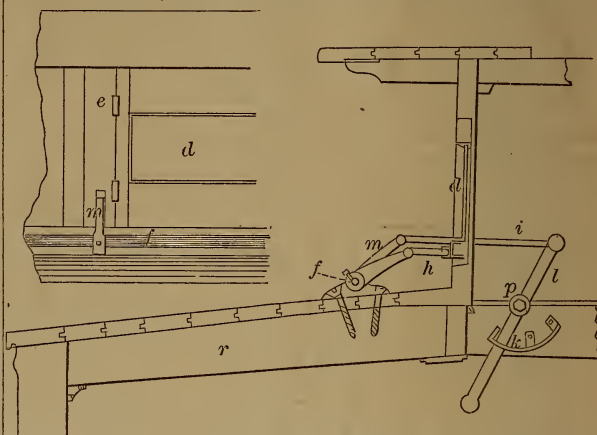
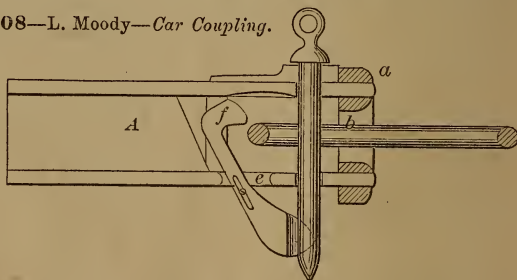


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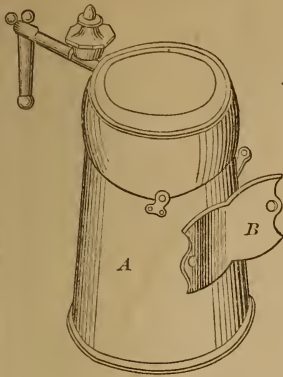


51605—D. H. Mcloy—*Tea Can.*



51606—L. P. Mitchell—*Buckle Machinery.*51609—D. Munson—*Metallic Ruler.*51610—S. Nowlan—*Safety Valve.*51607—Monroe, Stone & St. John—*Car Ventilating Window.*51608—L. Moody—*Car Coupling.*51611—P. Noyes—*Lamp Wick.*

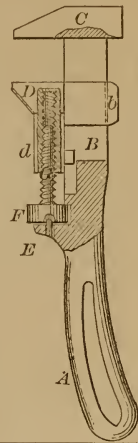
51612—A. J. Ohmer—*Portable Refreshment Fountain.*



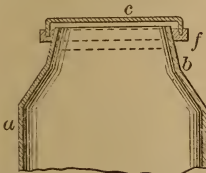
51614—S. Parr—*Broom Clasp.*



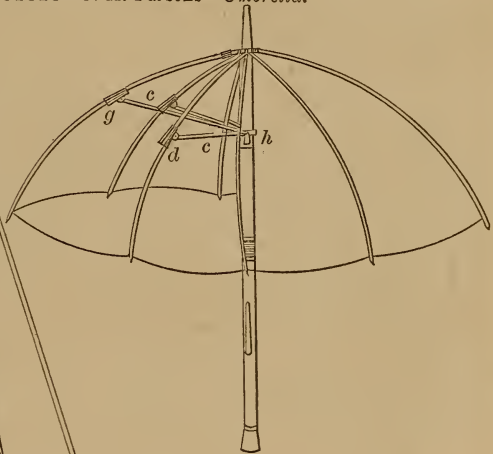
51617—Penney & Thurston—*Wrench.*



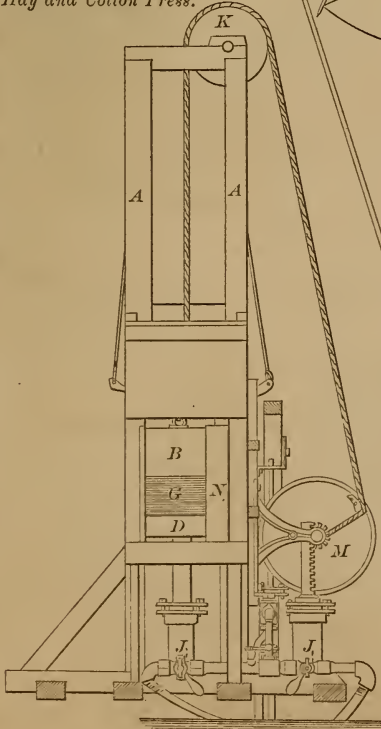
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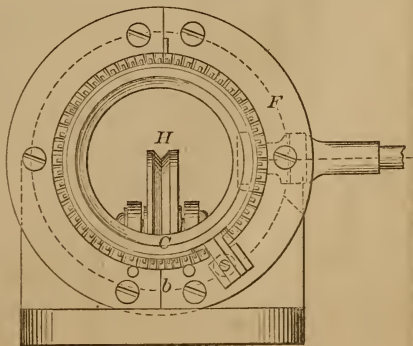
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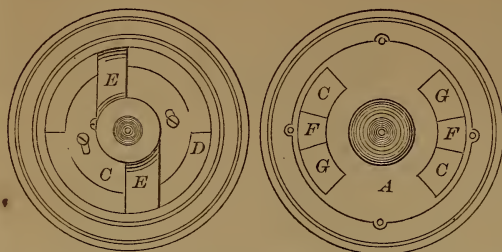
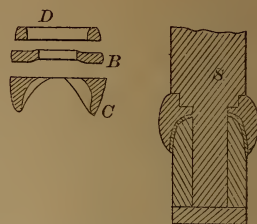
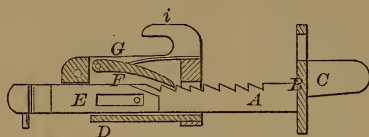
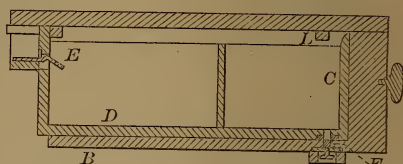
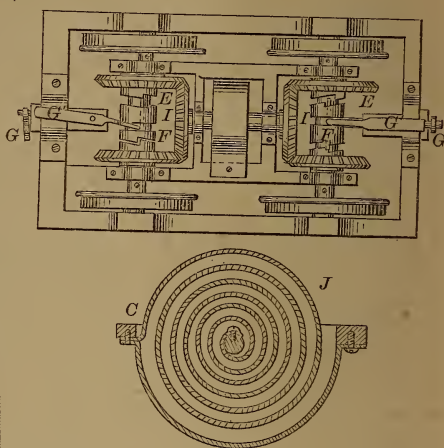
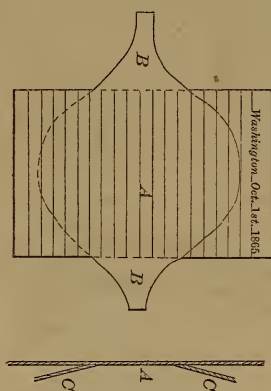
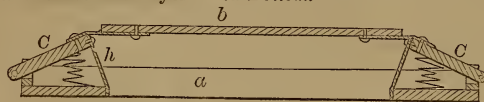
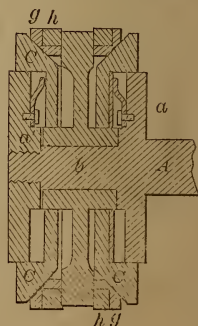
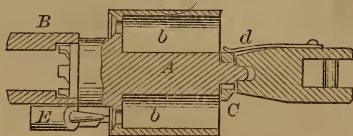


51615—C. H. Parshall—*Hay and Cotton Press.*

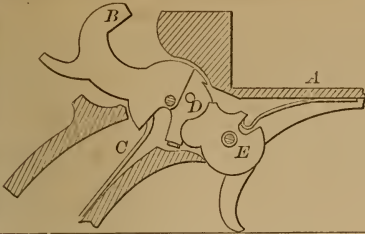


51618—J. Pepper—*Knitting Machine.*

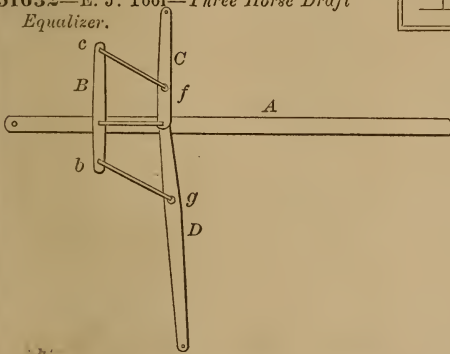


51619—E. O. Potter—*Shaft Coupling*.51620—J. C. Plumer—*Felloe Clamp*.51621—J. M. Rix—*Key Guard*.51625—J. Serrill—*Drawer Fastening*.51626—T. R. Sinclaire—*Starting Cars*.51623—C. Rowland—*Envelope and Letter Sheet*.51624—C. H. Sawyer—*Bed Bottom*.51622—Roth & Gamble—*Steam Engine Piston*.51628—E. T. Starr—*Fire Arm*.

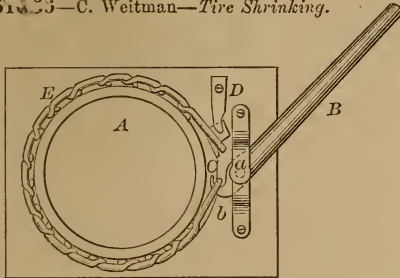
51629—E. T. Starr—Gun Lock.



51632—E. J. Toof—Three Horse Draft Equalizer.



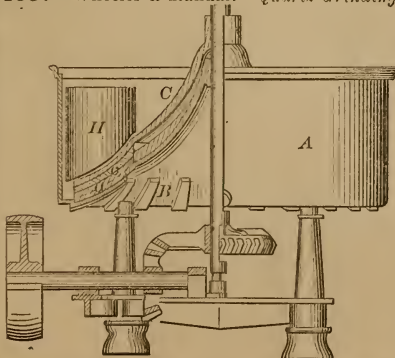
51633—C. Weitman—Tire Shrinking.



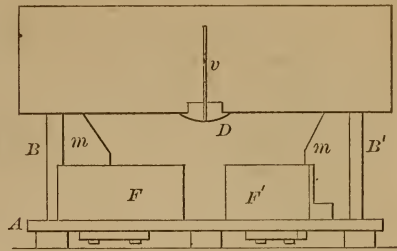
51634—Warren & Baldwin—Wash Board.



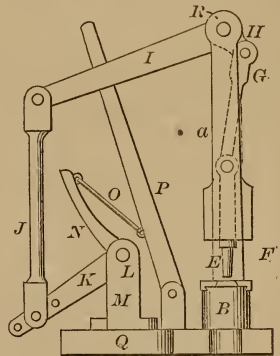
51637—Wheeler & Randall—Quartz Grinding Mill.



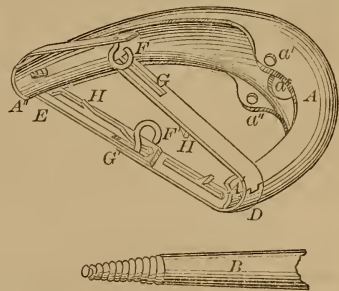
51633—G. Trimble—Mitering Machine.



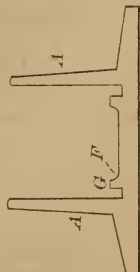
51630—J. Steadman—Punching Machine.



51631—S. D. Thruston—Broom Head.



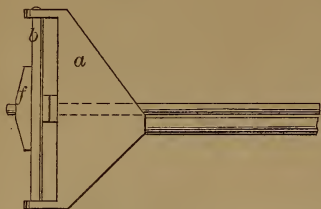
51635—O. G. Warren—Railroad Rail.



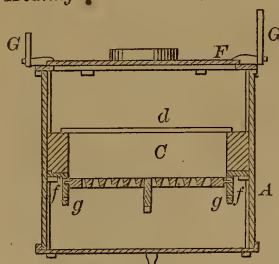
51638—J. Wickersham—Furnace Door.



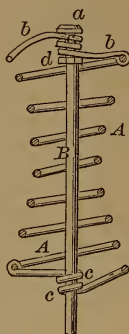
51640—W. D. Wilson—Marine Propeller.



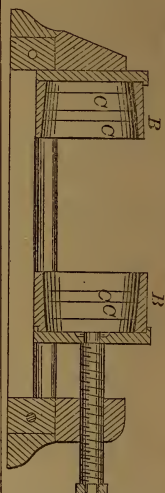
51641—C. Woodbury—Stove for Heating Tailors' Irons, &c.



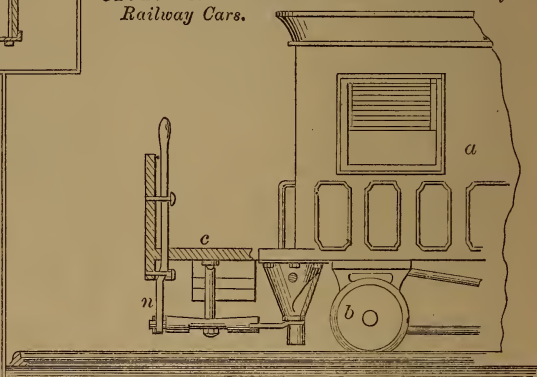
51644—W. C. Wyckoff—Furniture Spring.



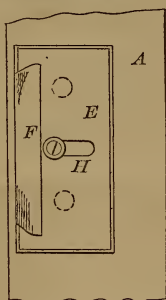
51643—A. Wyckoff—Barrel Machine.



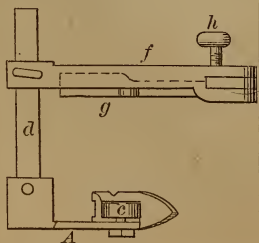
51646—C. M. Bromwich—Sand Distributor for Railway Cars.



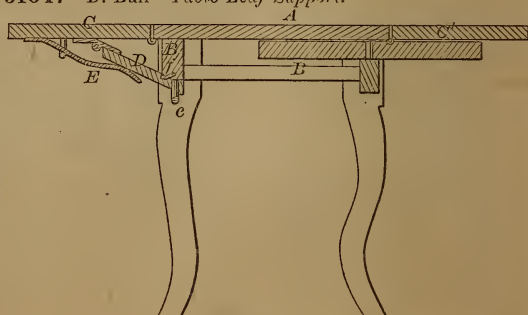
51639—S. B. Williams—Door Lock Keeper.



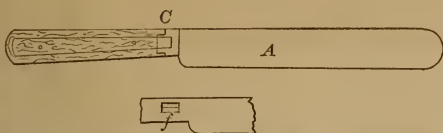
51645—F. Zuchetti—Sewing Machine Guide.



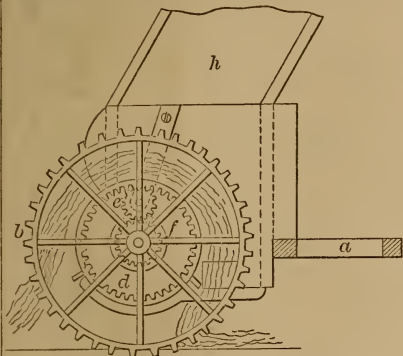
51647—D. Bull—Table Leaf Support.



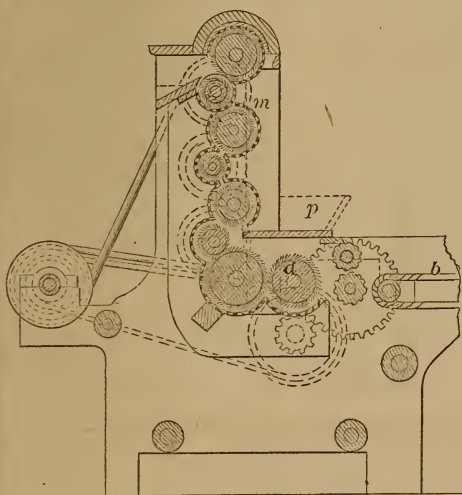
51648—C. L. Butler—*Cutlery.*



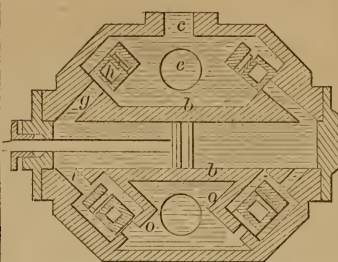
51650—T. C. Craven—*Hay Spreader and Elevator.*



51652—J. B. Fuller—*For Preparing Flax.*



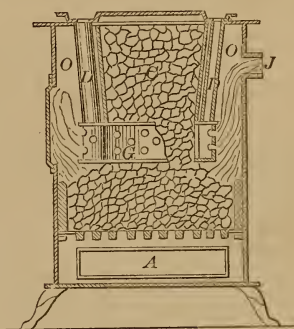
51653—C. B. & J. Hardick—*Pump Valve.*



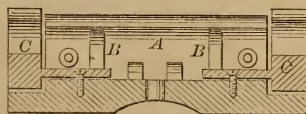
51651—Davis & Johnson—*Fish Hook.*



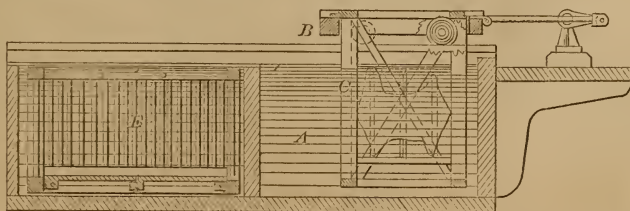
51649—D. B. Cox—*Stove.*



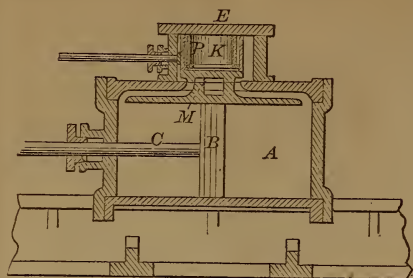
51654—S. B. Higgins—*Journal Box.*



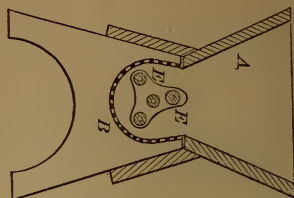
51655—H. Liebermann—*Tanning Apparatus.*



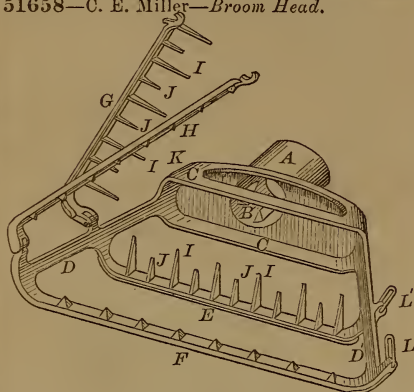
51656—A. W. Jones—Slide Valve.



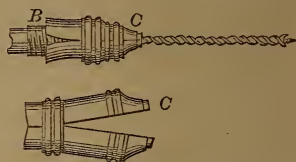
51657—H. L. Meservy—Flour Sifter.



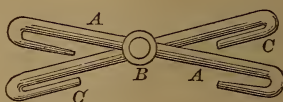
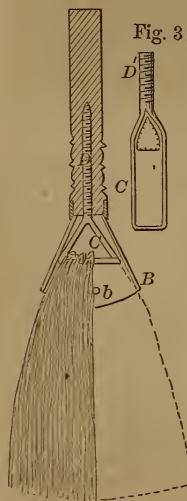
51658—C. E. Miller—Broom Head.



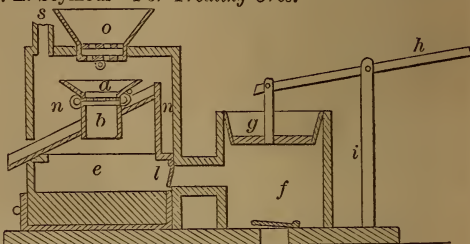
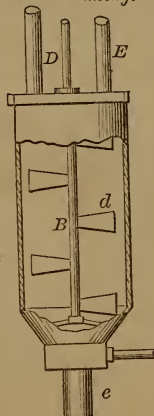
51660—M. V. Nobles—Bit Holder.



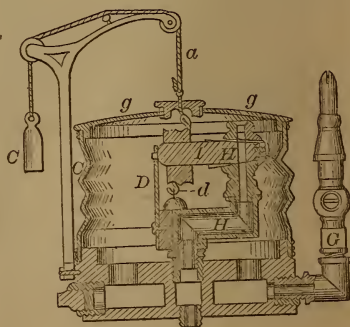
51661—F. Pfeiffer—Link.

51663—A. Silvers—
Broom Head.

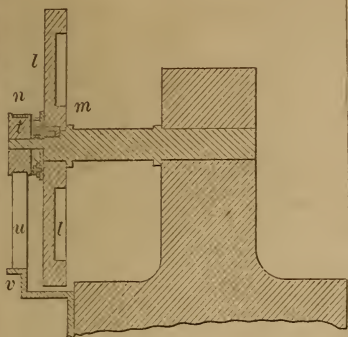
51662—E. L. Seymour—For Treating Ores.

51659—J. G. Moxey—
Bread Making.

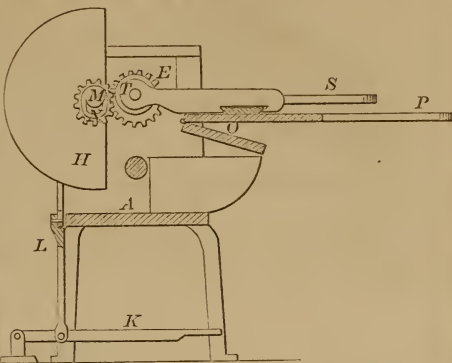
51664—W. A. Simonds—Gas Regulator.



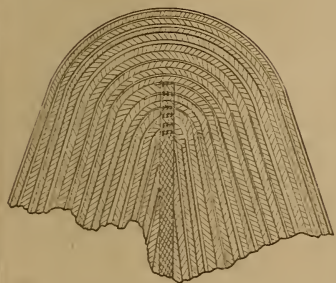
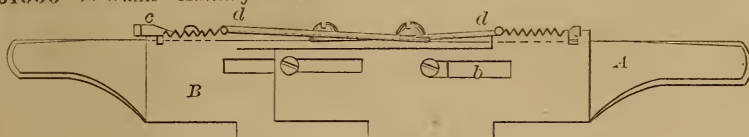
51665—D. M. Smyth—Clutch.



51667—W. Wilson, Jr.—Machine for Making Sheet Metal Boxes.



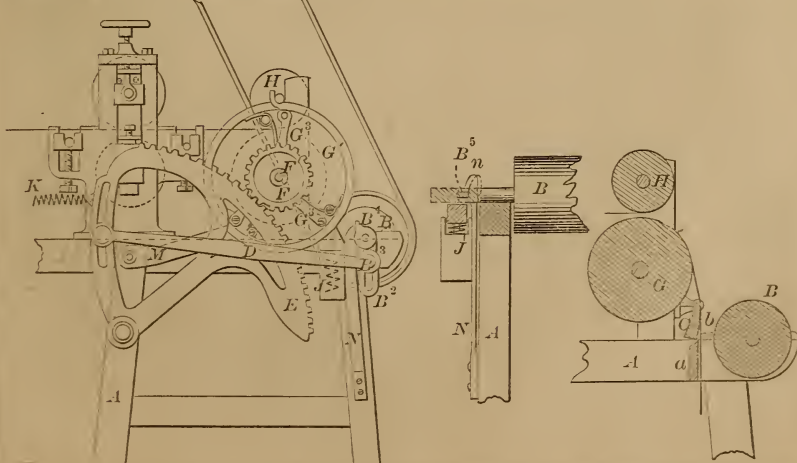
51666—S. Wallis—Knitting Machine.

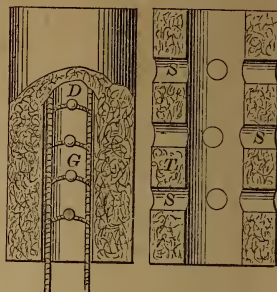
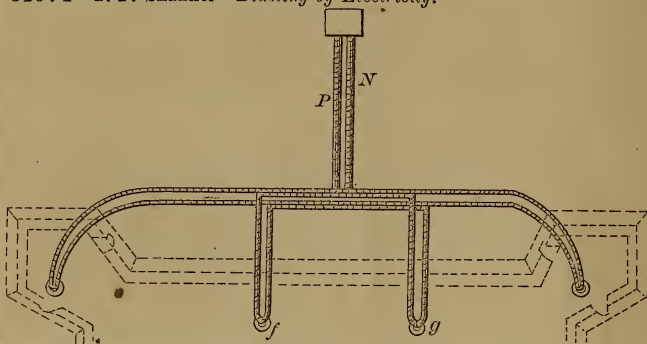


51668—B. Miller—Imitation of Embroidery.

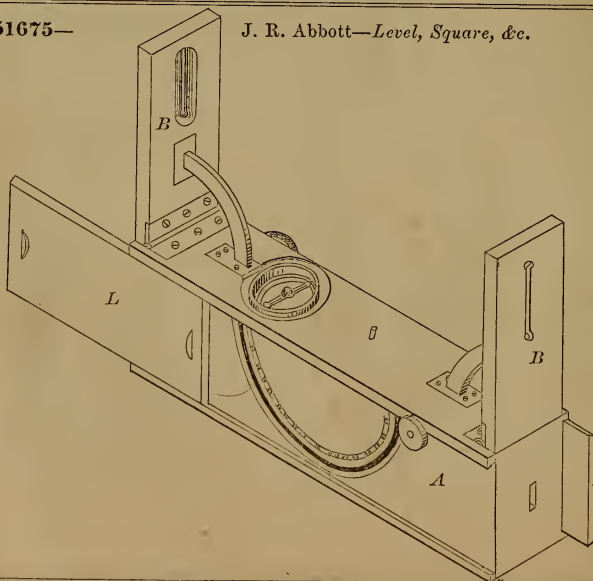


51669—W. Smith—Paper Cutting Machine.

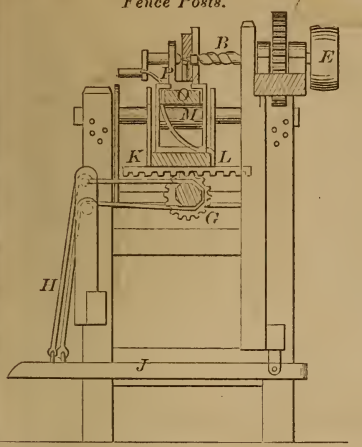


51670—F. Browning—*Clothes Boiler, &c.*51672—T. P. Shaffner—*Cartridge.*51673—T. P. Shaffner—*Cartridge for Blasting.*51674—T. P. Shaffner—*Blasting by Electricity.*

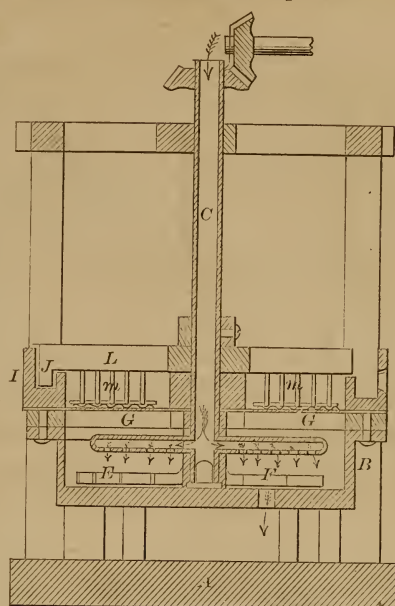
51675—

J. R. Abbott—*Level, Square, &c.*51671—T. P. Shaffner—*Blasting by Electricity.*

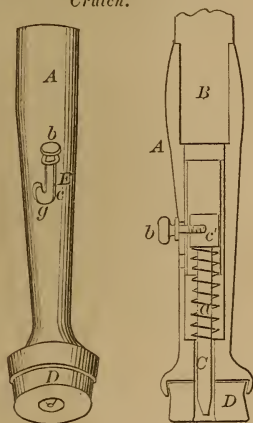
51676—J. Agnew—Machine for Boring Fence Posts.



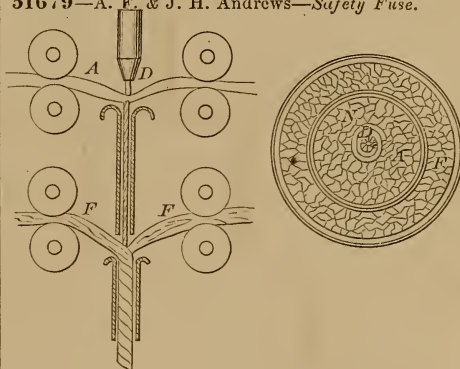
51678—S. F. Ambler—Ore Separator.



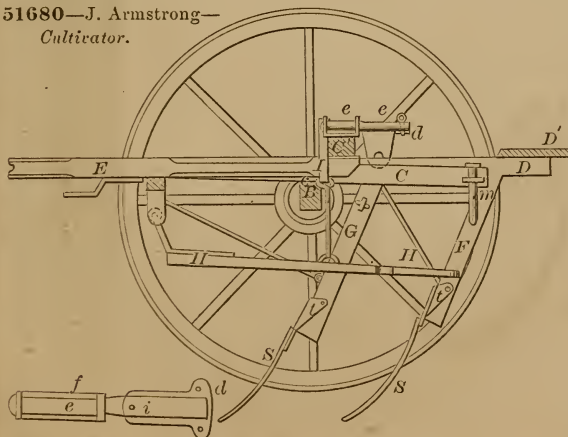
51677—Allamby & Bugbee—Crutch.



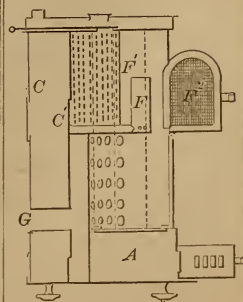
51679—A. F. & J. H. Andrews—Safety Fuse.

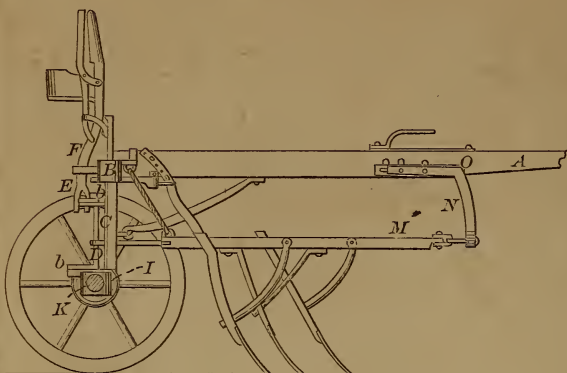
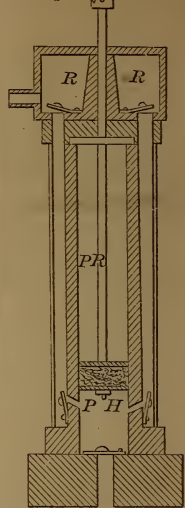
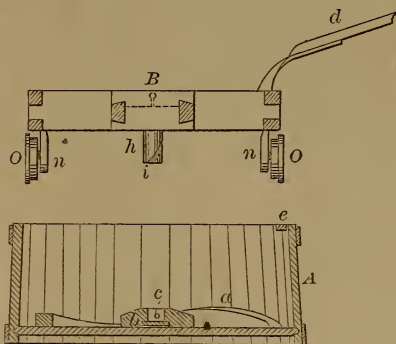
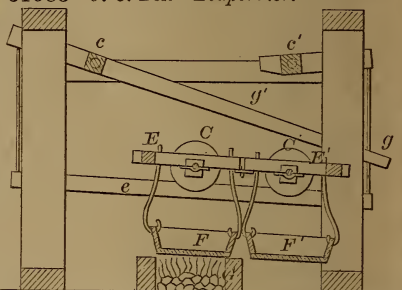
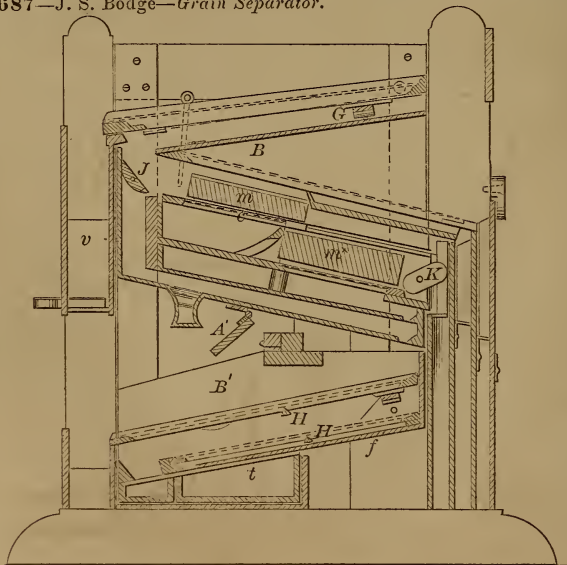
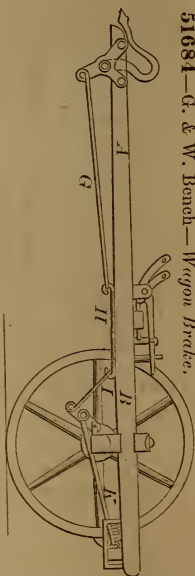


51680—J. Armstrong—Cultivator.

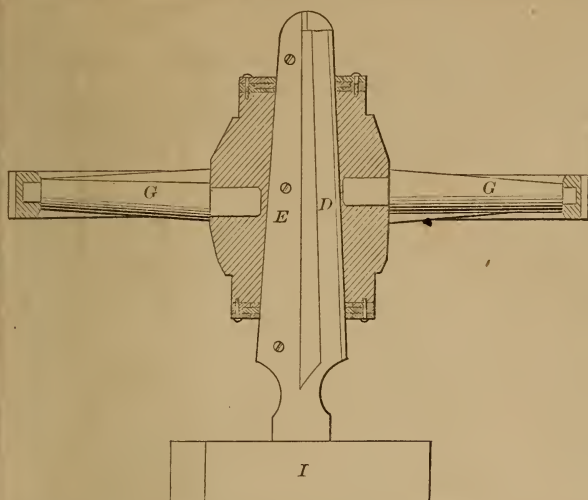


51681—R. Bailey—Coal Stove.

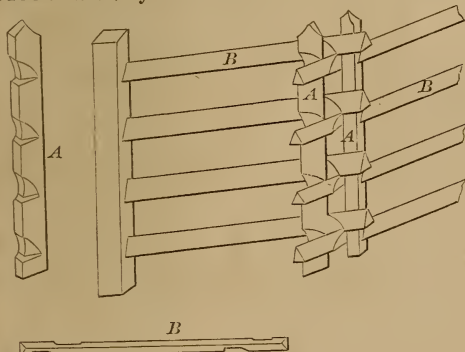


51682—C. C. Baum—*Cultivator Plow.*51686—J. A. Bloom—*Pump.*51685—H. Bloedel—*Tire Cooler.*51683—J. C. Bell—*Evaporator.*51687—J. S. Bodge—*Grain Separator.*51684—G. & W. Bench—*Wagon Brake.*

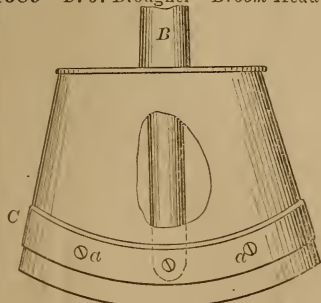
51688—F. Bremerman—Machine for Boring Wagon Hubs.



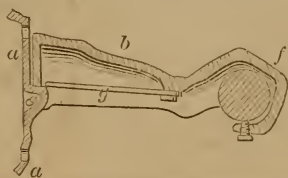
51691—T. R. Byrnes—Fence.



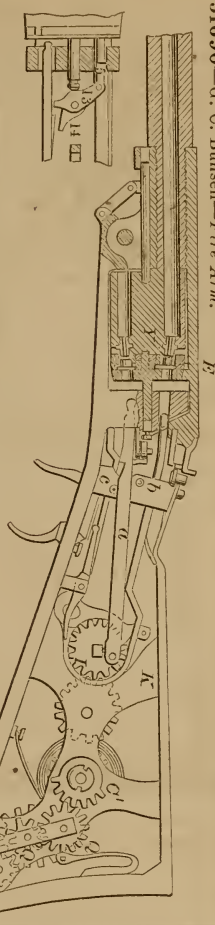
51689—D. J. Brougher—Broom Head.



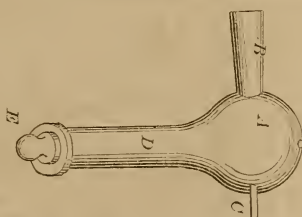
51693—A. Clark—Coffin Handle.



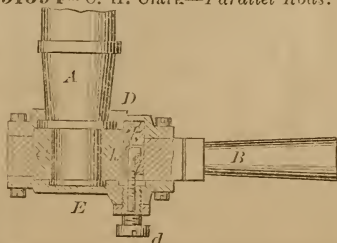
51690—G. C. Bunsen—Fire Arm.

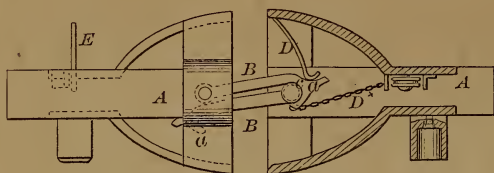
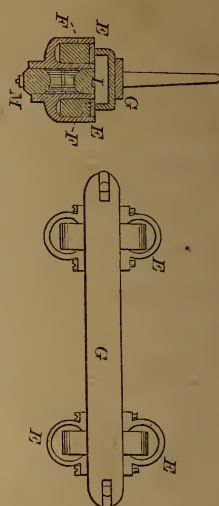
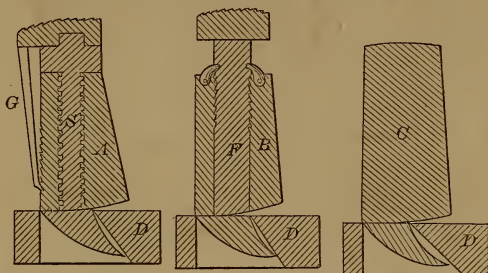
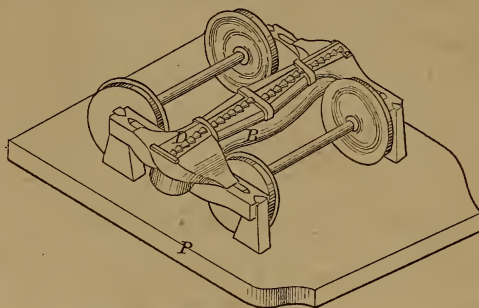
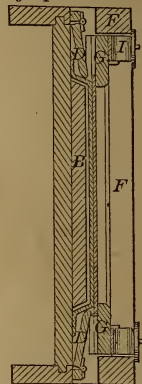
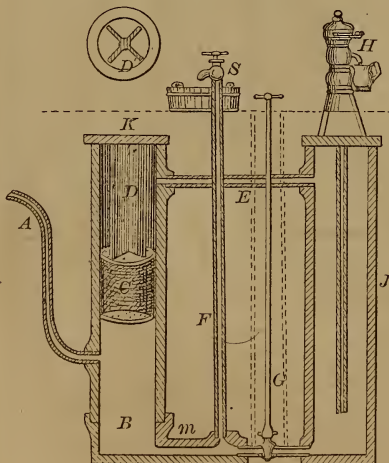
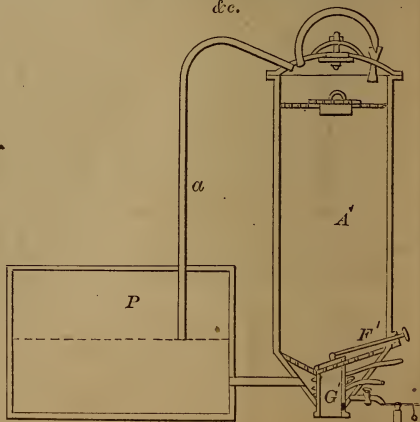


51692—W. P. Cain—Tugger.



51694—C. H. Clark—Parallel Rods.

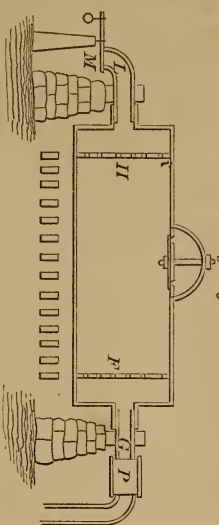


51695—G. E. Clarke—*Car Coupling.*51697—S. G. Clough—*Rubber Spring.*51696—J. H. Clarke—*Swing Jack for Cars.*51698—G. W. Cook—*Railroad Car.*51699—L. E. Denison—*Photographic Printing Frame.*51703—W. P. Dickinson—*Filter and Cooler.*51704—J. W. Dixon—*Pulping Wood, Straw, &c.*

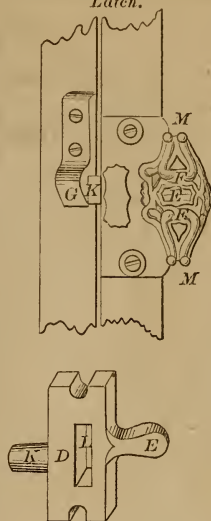
51705—J. W. Dixon—*Treating Wood, Straw, &c.*



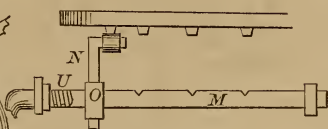
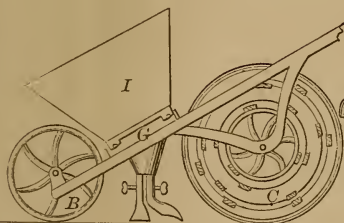
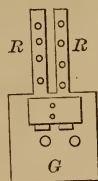
51706—J. W. Dixon—*Treating Vegetable Fibre.*



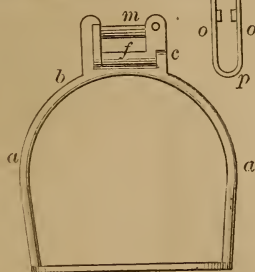
51710—E. O. Frink—*Gate Latch.*



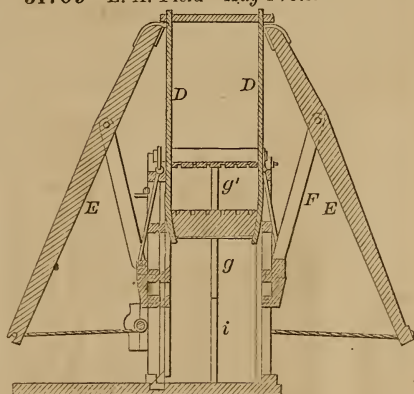
51707—G. W. Farley—*Grain Drill.*



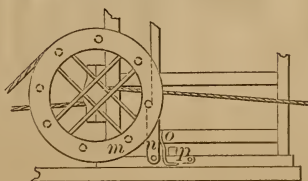
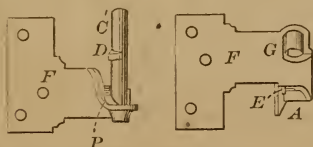
51708—W. Faucett—*Stirrup Fastening.*



51709—E. A. Field—*Hay Press.*

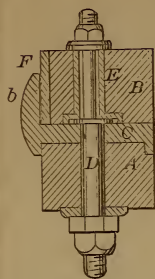


51711—S. C. Frink—*Hinge.*



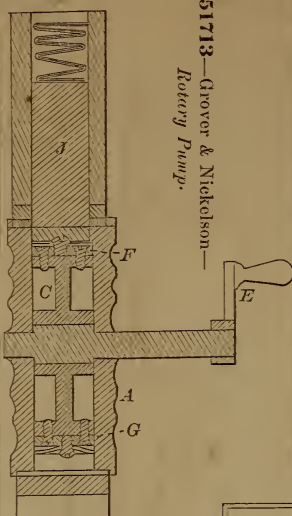
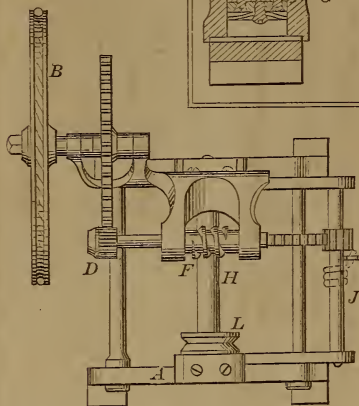
51712—J. C. Garner—

Whiffletree Attachment.

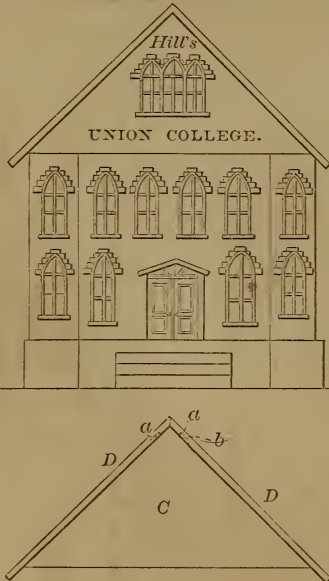


51713—Grover & Nickelston—

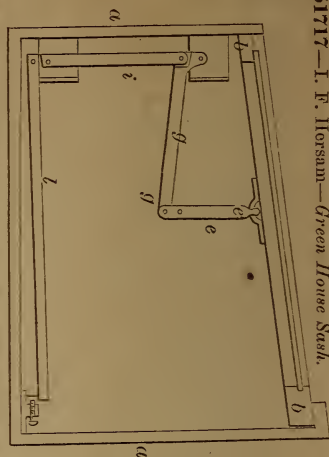
Rotary Pump.

51719—P. Higdon—
Hoisting Machine.

51720—S. L. Hill—Toy Block.



51717—I. F. Horsam—Green House Sash.



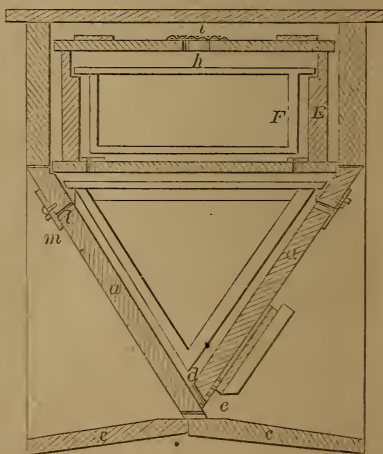
51715—J. Hartman, Jr.—Car Brake.



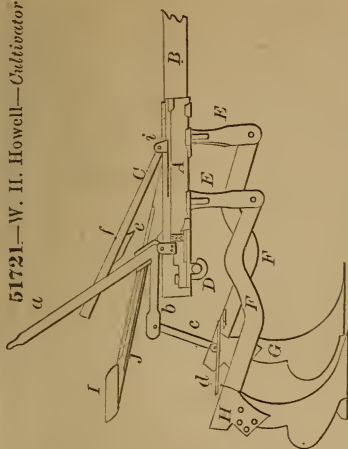
51718—E. S. Hadden—Closing Ship's Lights.



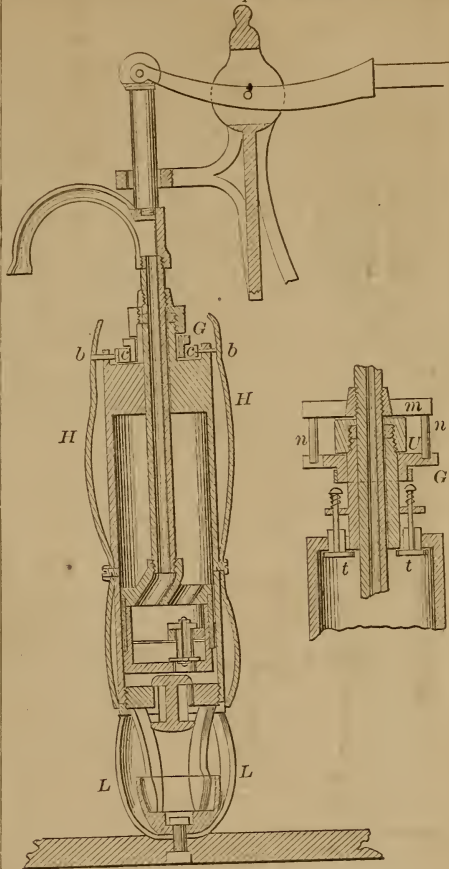
51716—J. H. Hendrick—Beehive.



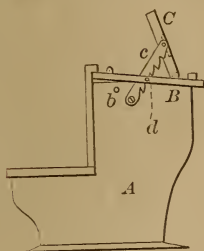
51721—W. H. Howell—Cultivator.



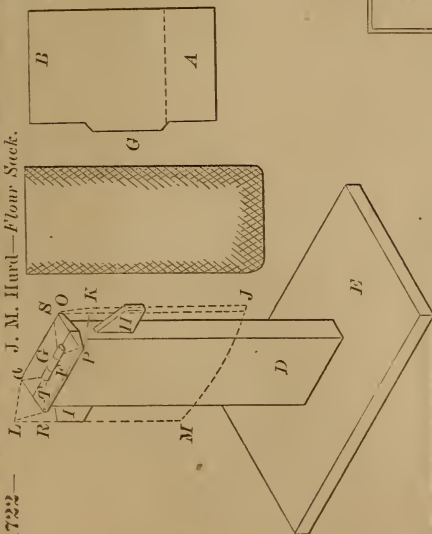
51726—N. Johnson—Pump.



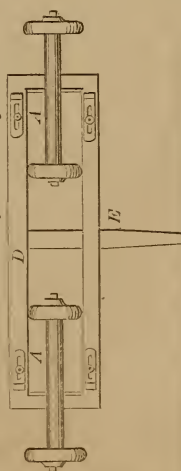
51727—W. Johnson—School Desk.



51722—J. M. Hard—Flour Sack.



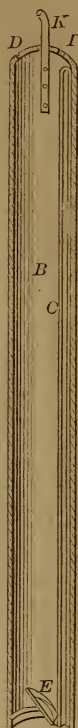
51725—G. Johnson—Machine for Marking Corn Ground.



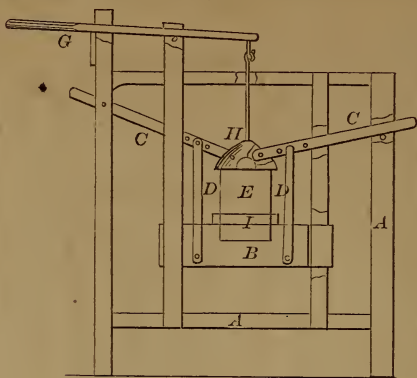
51729—M. Knickerbocker—Electro-Magnet for Oil Wells.



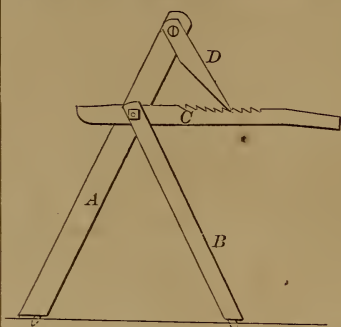
51730—O. B. Latham—Sand Pump.



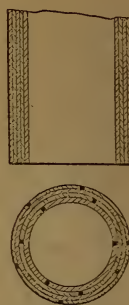
51732—J. Lewis—Press.



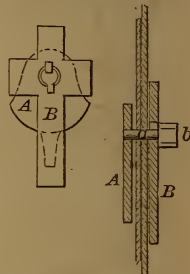
51734—J. Locke—Lifting Jack.



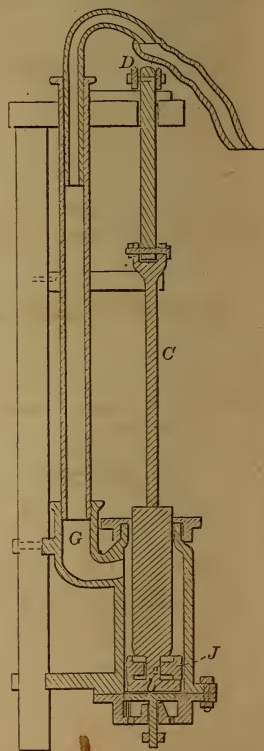
51735—J. K. Mayo—Material for Roofing, &c.



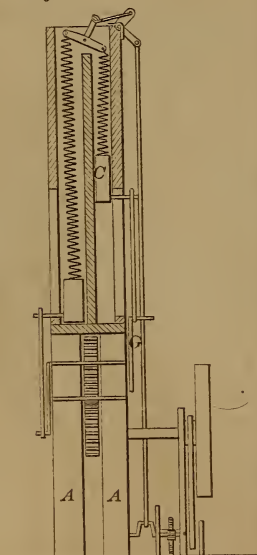
51733—H. Link—Shirt Fastener.



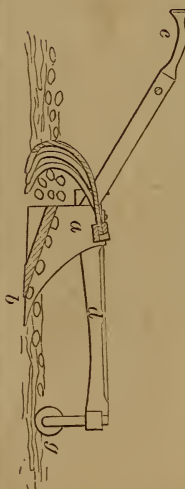
51736—R. A. McCauley—Pump.



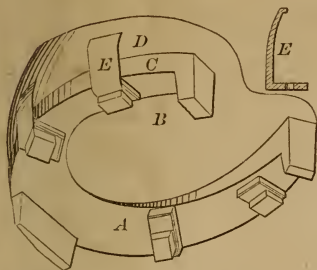
51737—E. F. & J. McFarland—Spring and Weight Piston Engine.



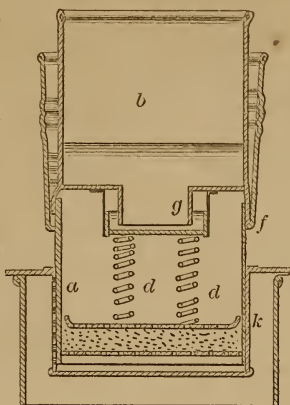
51731—E. S. Lenox—Potato Digger.



51738—J. McPherson—Horse Shoe.



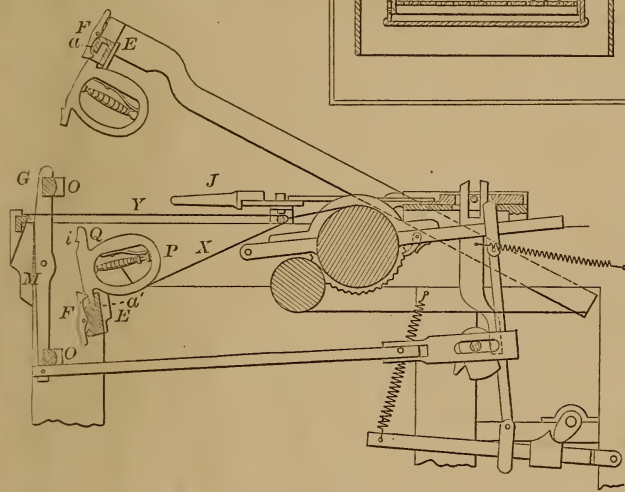
51741—J. H. Nason—Coffee Percolator.



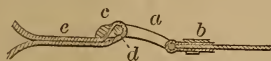
51742—J. W. Norcross—Hoisting Tackle.



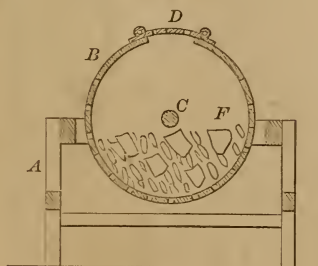
51744—H. A. Oesterle—Machine for Making Netted Fabrics.



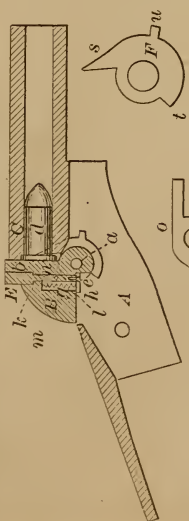
51740—G. O. Monroe—Buckle.



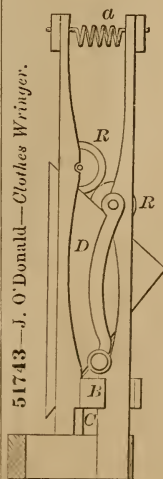
51745—J. G. Page—Cleaning Cotton Seed.



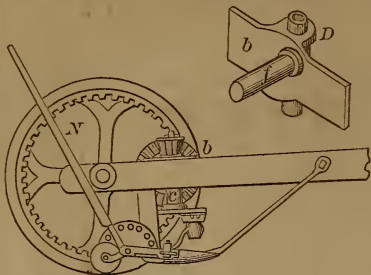
51739—W. H. & G. W. Miller—Fire Arm.



51743—J. O'Donnell—Clothes Wringer.



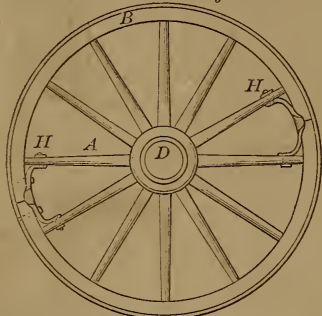
51746—A. Palmer—Mowing Machine.



51748—D. J. Pearson—Invalid Spoon.



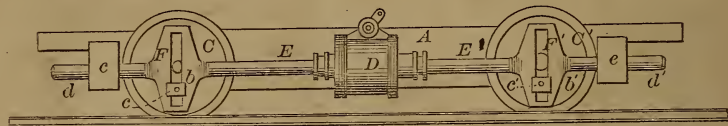
51747—B. Pearson—Wagon Wheel.



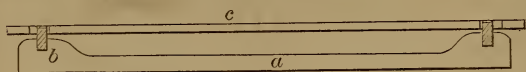
51750—H. Pulse—Adjustable Harrow.



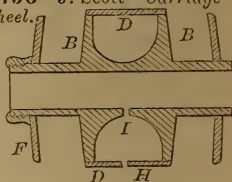
51753—J. B. Root—Locomotive.



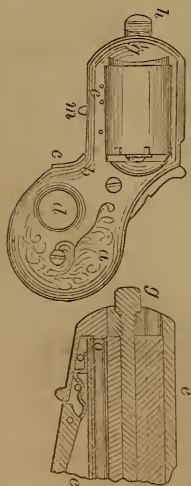
51755—G. Schott—Bedstead Bottom.



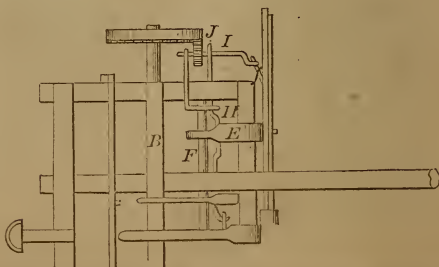
51756—J. Scott—Carriage Wheel.



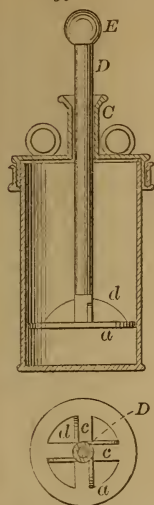
51757—For Pulverizing and Furrowing.



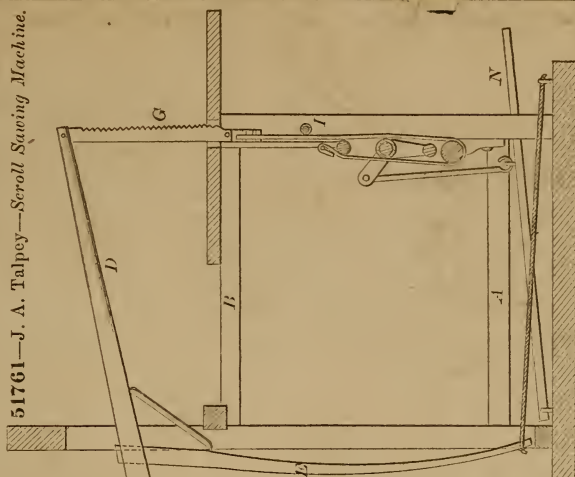
51752—J. Reid—Five Arm.



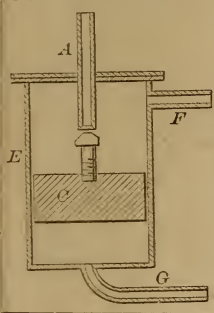
51758—W. B. Smith—
Egg Beater.



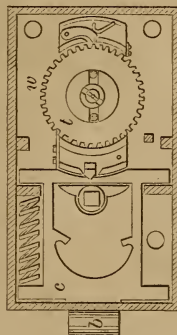
51761—J. A. Talpey—Scroll Sawing Machine.



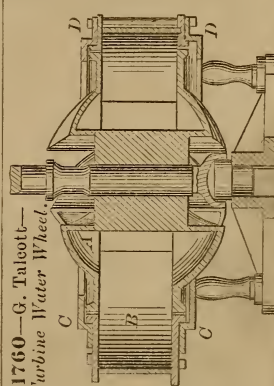
51759—
Supplee & Wright—
Low Water Detector.



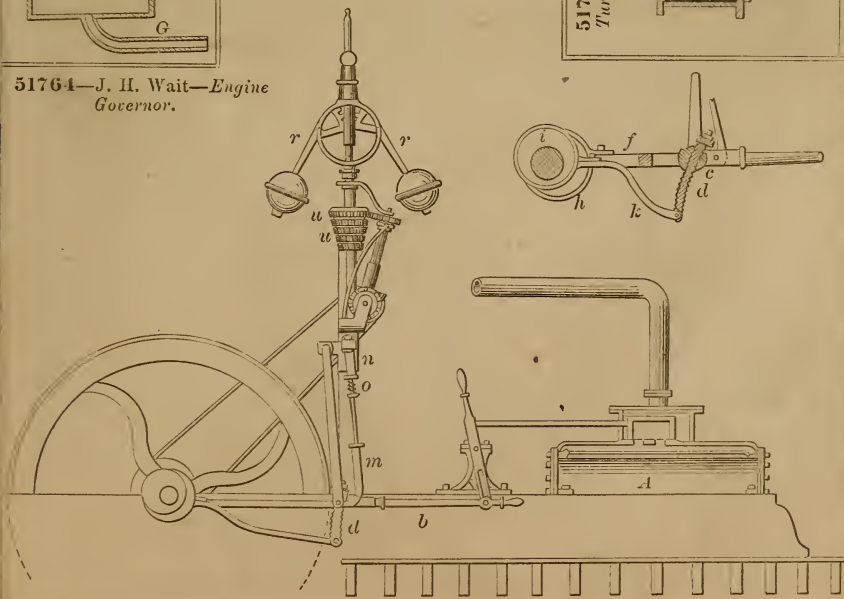
51763—B. M. Van Der Veer—Lock.



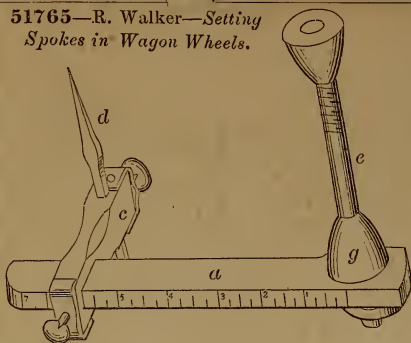
51760—G. Talcott—
Turbine Water Wheel.



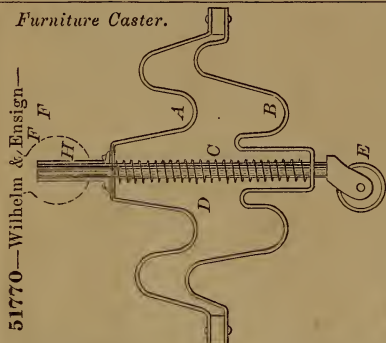
51764—J. H. Wait—Engine
Governor.



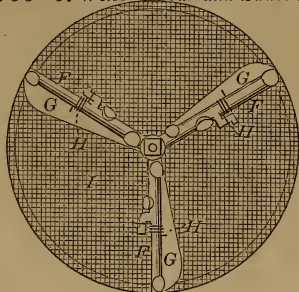
51765—R. Walker—Setting
Spokes in Wagon Wheels.



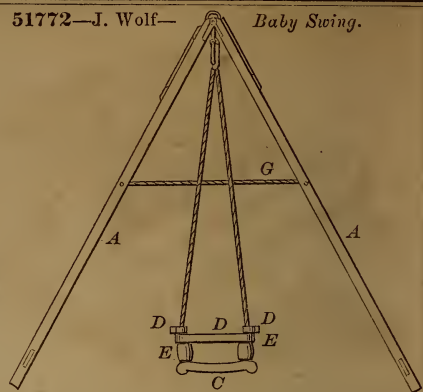
Furniture Caster.



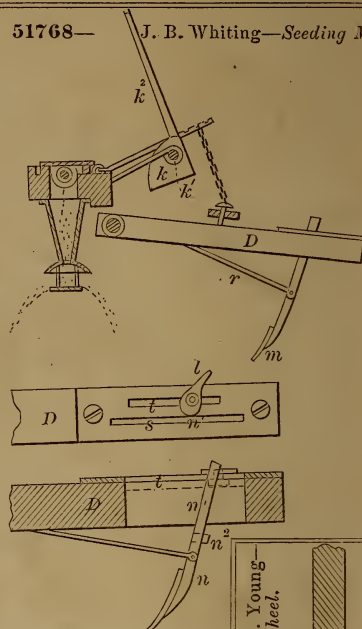
51766—J. Wells—Flour and Sauce Sifter.



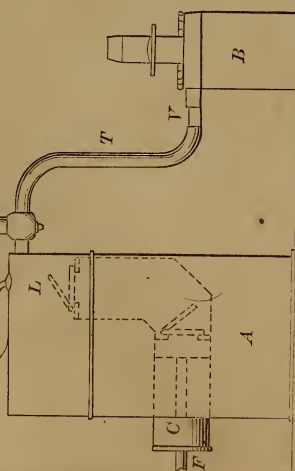
51772—J. Wolf—Baby Swing.



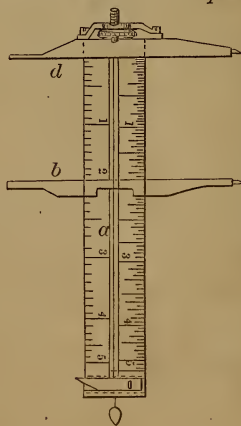
51768—J. B. Whiting—Seeding Machine.



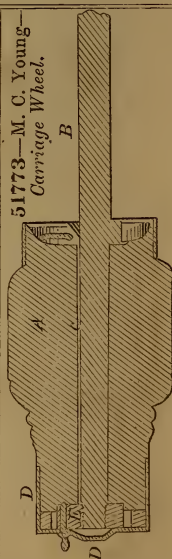
51769—I. H. Wilhelm—Air Pump.



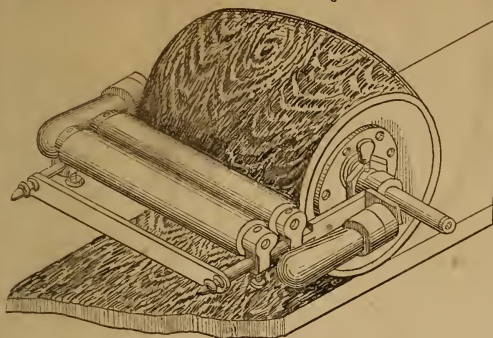
51767—S. Whalen—Calipers.



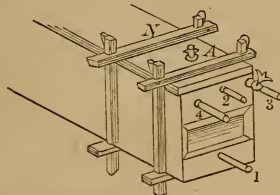
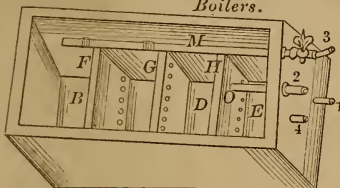
51773—M. C. Young—
Carriage Wheel.



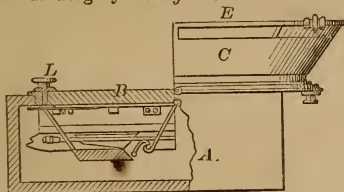
51774—R. A. Adams—For Graining Wood.



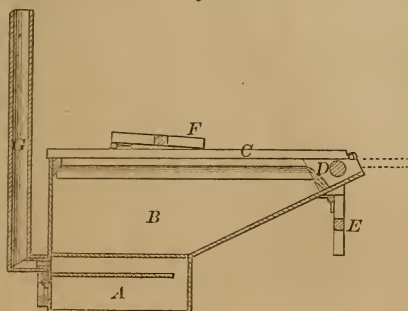
51775—W. Brown—Preventing Incrustation in Boilers.



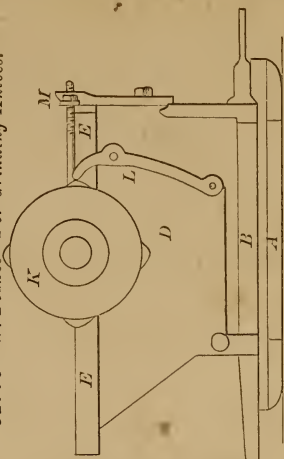
51780—G. Gregory—Wagon Seat.



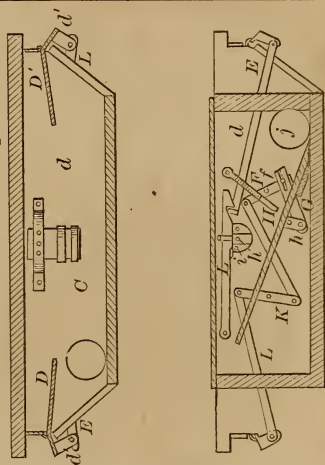
51783—A. Clarke—Hog Scalder.



51779—W. Fosket—For Grinding Knives.



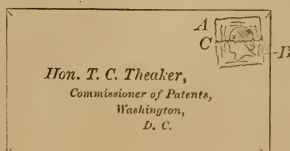
51777—G. E. Clarke—Animal Trap.



51778—H. E. Davidson—Elastic Syringe.

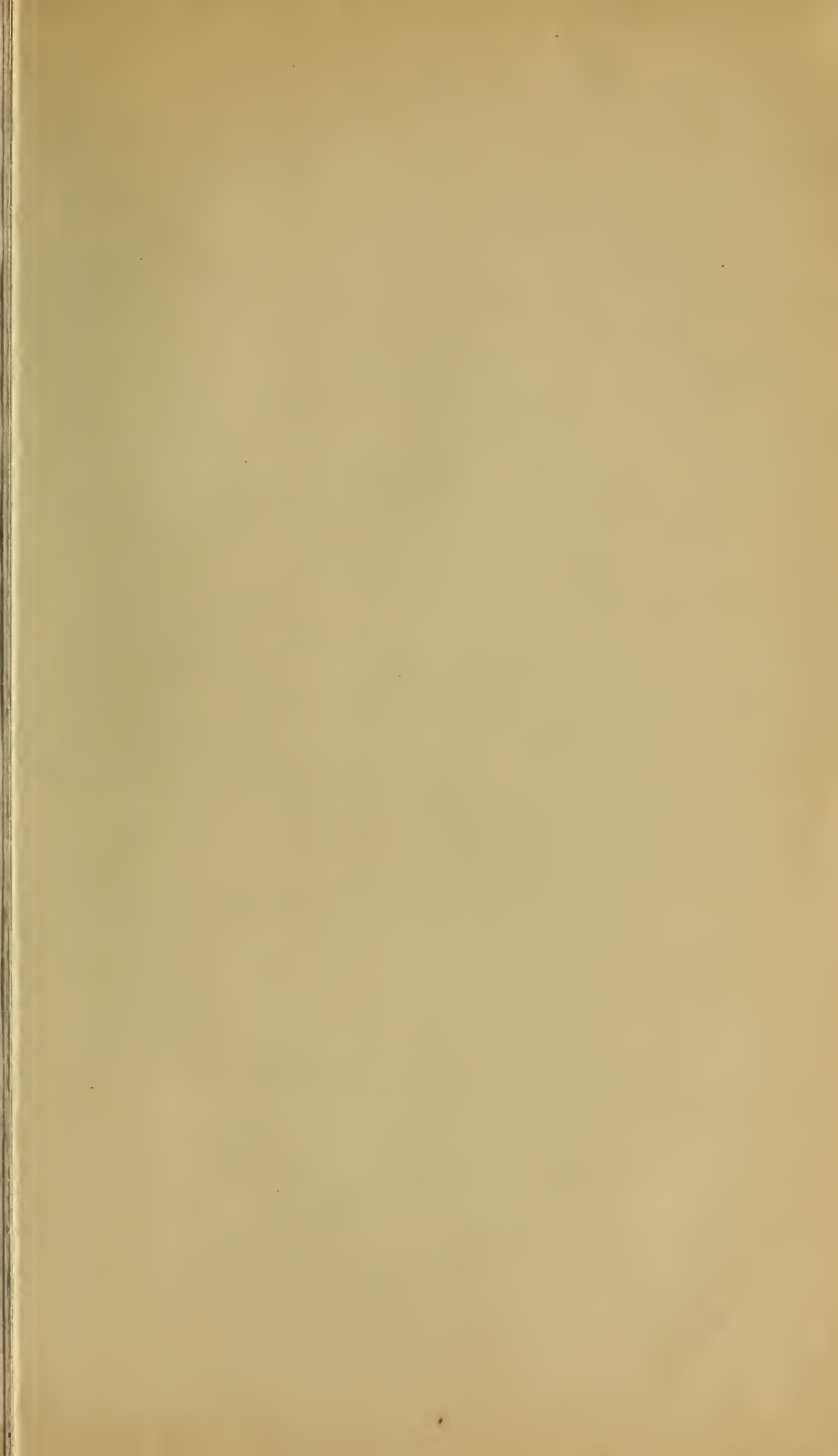


51782—G. W. Bowsby—Postage Stamp.

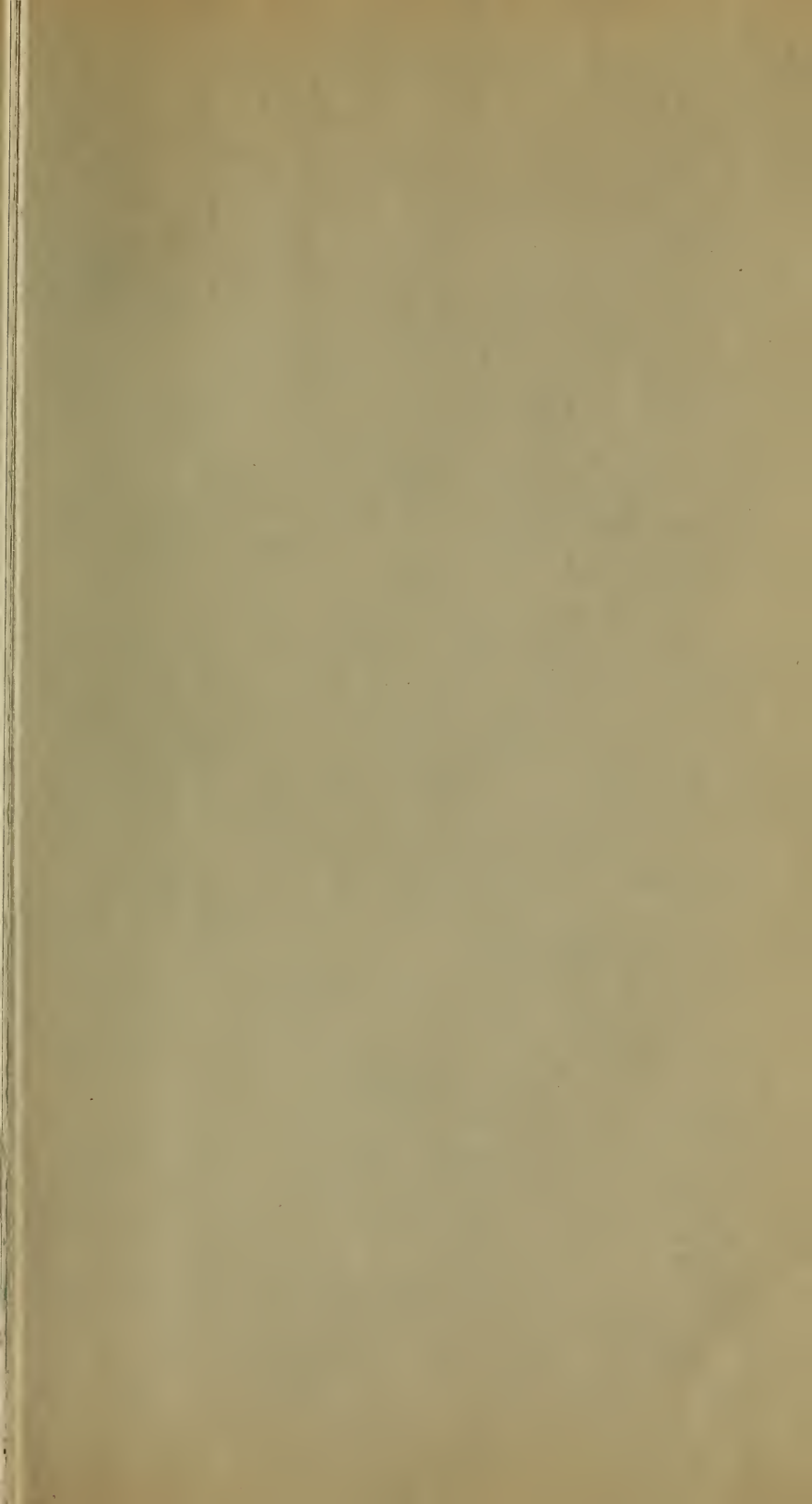


Hon. T. C. Theaker,
Commissioner of Patents,
Washington,
D. C.

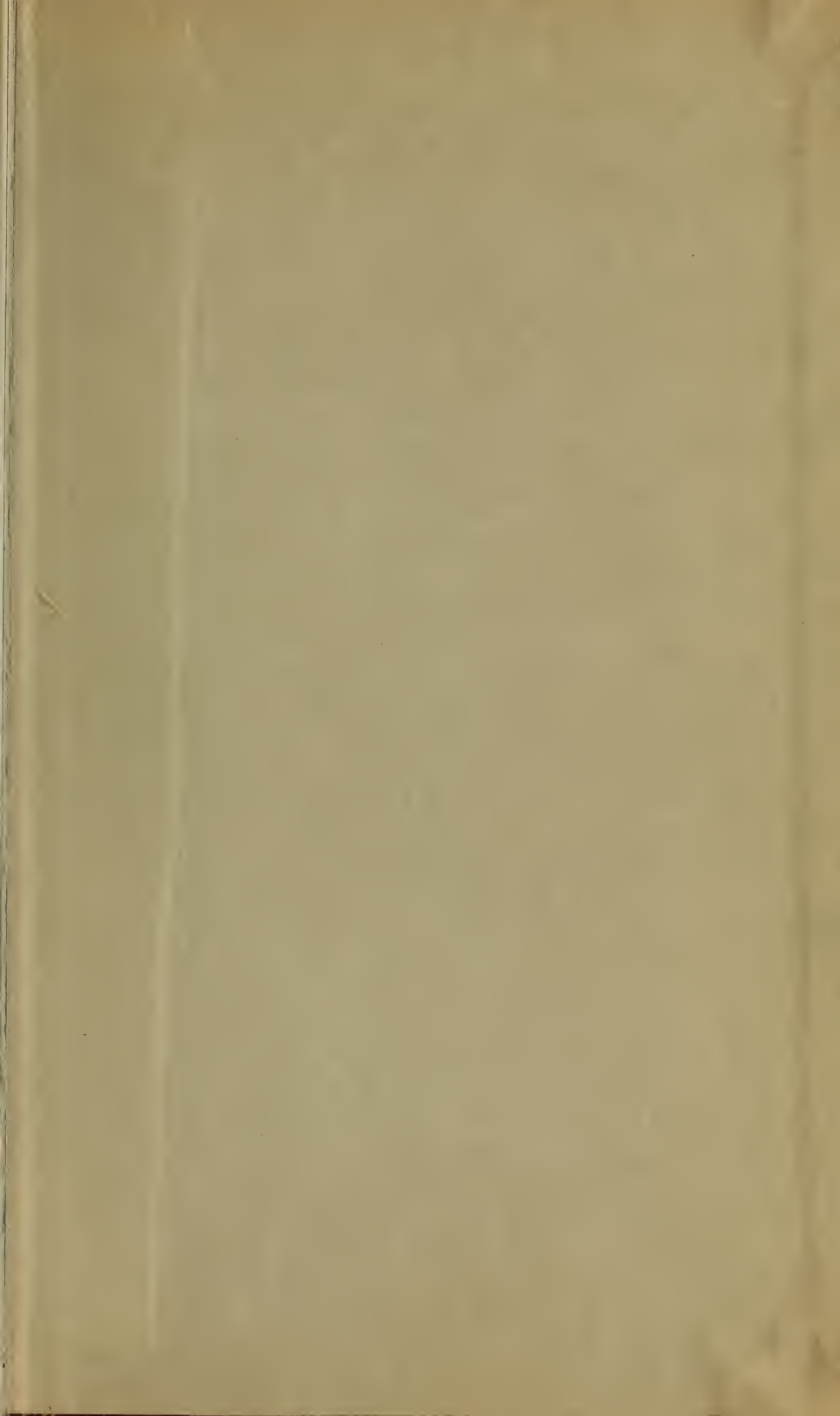
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